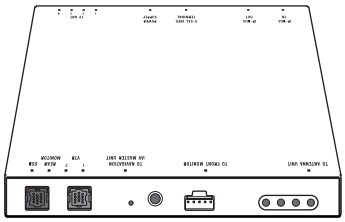
Service Manual

GEX-P7000TVP/EW



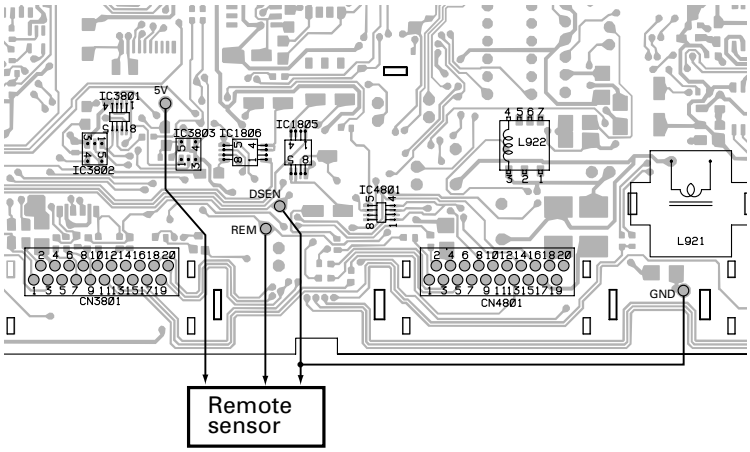
ORDER NO.
CRT2385

HIDE-AWAY TV TUNER

GEX-P7000TV UC,ES

GEX-P7000TVP EW,ES

- This product is a hide-away tuner, and cannot operate by itself. When operating this unit for servicing, switch to the FM modulator mode with the slide switch located on the bottom plate.
- To receive the remote control data , connect the remote sensor , as shown below:



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PIONEER ELECTRONICS SERVICE INC. P.O.Box 1760, Long Beach, CA 90801-1760 U.S.A.
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 253 Alexandra Road, #04-01, Singapore 159936

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1. SAFETY INFORMATION(GEX-P7000TV/UC)

CAUTION

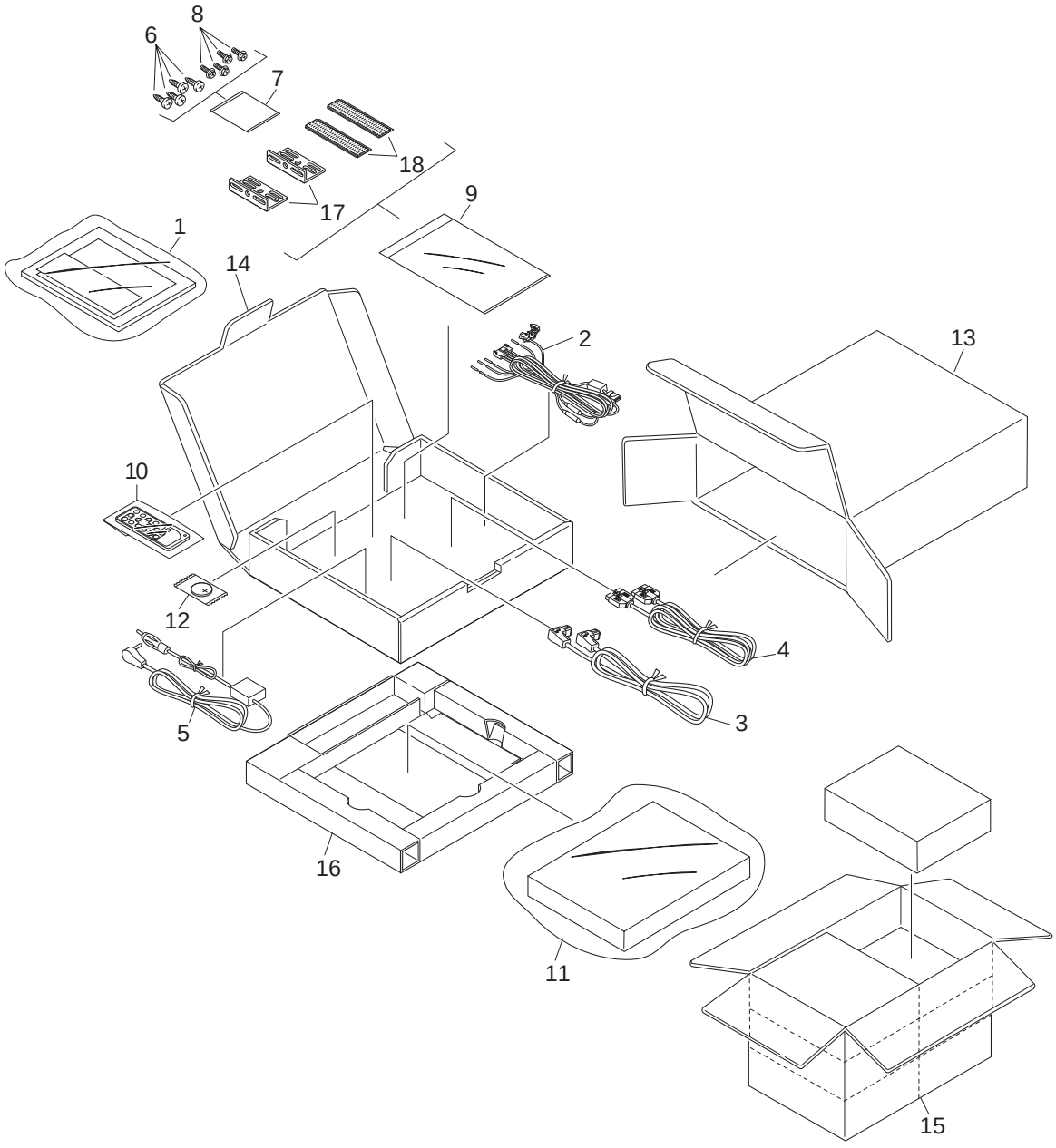
This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty.
If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING



NOTE:

● Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.

● Screws adjacent to ∇ mark on the product are used for disassembly.

(1) PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
*	1-1	Card	See Contrast table(2)
	1-2	Owner's Manual	See Contrast table(2)
	1-3	Installation Manual	See Contrast table(2)
	1-4	Polyethylene Bag	See Contrast table(2)
	1-5	Warranty Card	See Contrast table(2)
	1-6	Owner's Manual	See Contrast table(2)
	2	Cord Assy	CDE6094
	3	Cord Assy	CDE5880
	4	Cord Assy	CDE5906
	5	Antenna Select Unit	CWM5606
	6	Screw	BNC40P120FZK
	7	Polyethylene Bag	CEG1158
	8	Screw	HMF40P080FZK
*	9	Polyethylene Bag	CEG1101
	10	Remote Control Unit	CXB4141
	11	Polyethylene Bag	See Contrast table(2)
	12	Battery	CEX1030
	13	Carton	See Contrast table(2)
	14	Sub Carton	CHG3796
	15	Contain Box	See Contrast table(2)
	16	Protector	CHP2158
	17	Angle(x2)	CNB2351
	18	Fastener(x2)	CNM3728

(2) CONTRAST TABLE

GEX-P7000TV/UC, GEX-P7000TV/ES, GEX-P7000TVP/EW and GEX-P7000TVP/ES are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.			
			GEX-P7000TV/UC	GEX-P7000TV/ES	GEX-P7000TVP/EW	GEX-P7000TVP/ES
*	1-1	Card	ARY1048	Not used	Not used	Not used
	1-2	Owner's Manual	CRD3021	CRD3048	CRD3023	CRD3046
	1-3	Installation Manual	CRD3022	CRD3049	CRD3026	CRD3047
	1-4	Polyethylene Bag	CEG1116	Not used	CEG1116	Not used
	1-5	Warranty Card	Not used	Not used	CRY1087	Not used
	1-6	Owner's Manual	Not used	Not used	CRD3024	Not used
	11	Polyethylene Bag	CEG1173	CEG-162	CEG-162	CEG-162
	13	Carton	CHG3794	CHG3795	CHG3793	CHG3792
	15	Contain Box	CHL3794	CHL3795	CHL3793	CHL3792

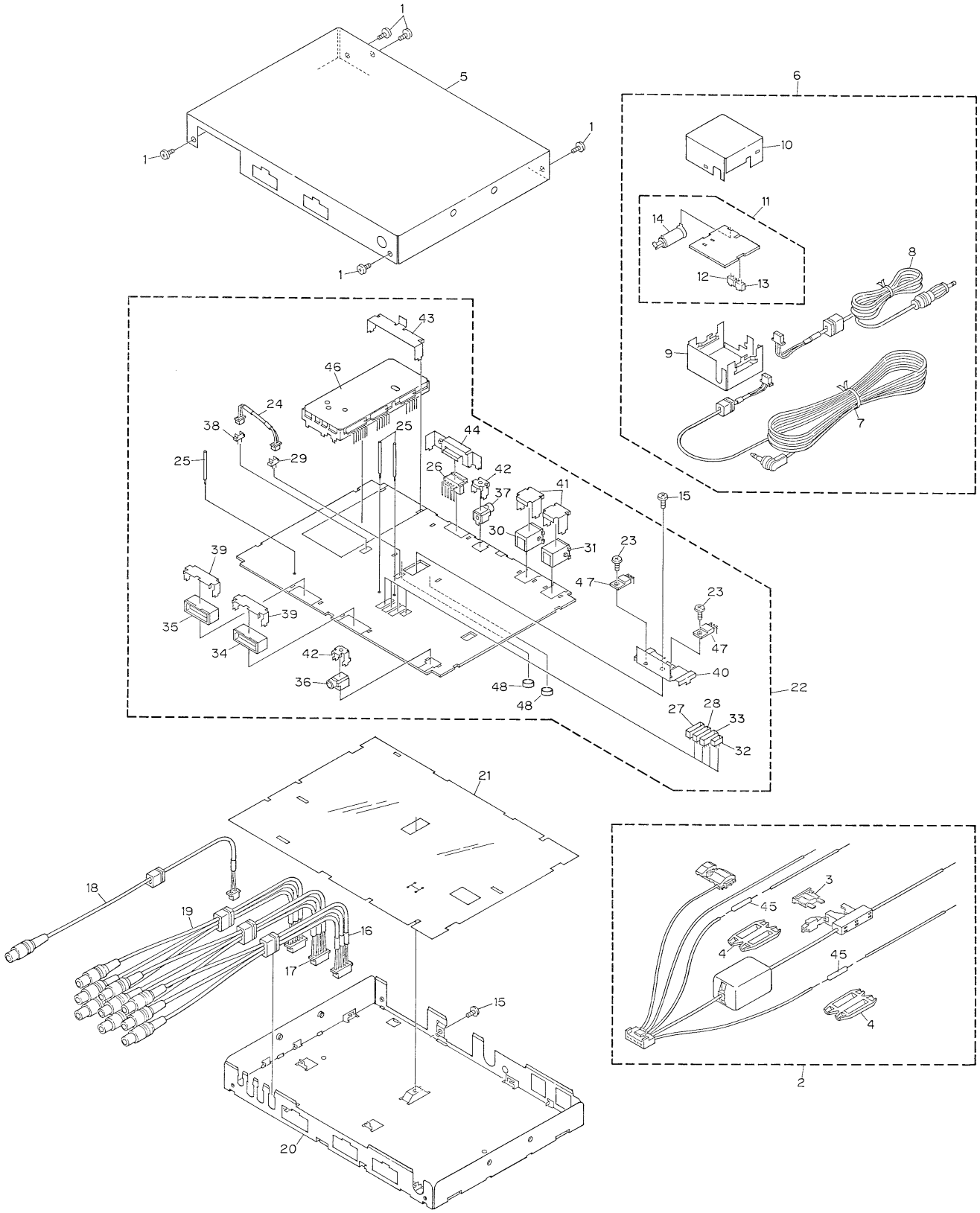
● Owner's Manual

Model	Part No.	Language
GEX-P7000TV/UC	CRD3021	English, French
GEX-P7000TV/ES,P7000TVP/ES	CRD3048, CRD3046	English, Spanish
GEX-P7000TVP/EW	CRD3023	English, Spanish, German
	CRD3024	French, Italian, Dutch

● Installation Manual

Model	Part No.	Language
GEX-P7000TV/UC	CRD3022	English, French
GEX-P7000TV/ES,P7000TVP/ES	CRD3049, CRD3047	English, Spanish
GEX-P7000TVP/EW	CRD3026	English, Spanish, German,
		French, Italian, Dutch

2.2 EXTERIOR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4
2

(1) EXTERIOR SECTION PARTS LIST

Mark No.	Description	Part No.
1	Screw	BSZ30P060FZK
2	Cord Assy	CDE6094
3	Fuse(4A)	CEK1001
4	Cap	CNS1472
5	Case	See Contrast table(2)
6	Antenna Select Assy	CWM5606
7	Cord	CDE5482
8	Antenna Cable	CDH1207
9	Chassis	CNA1555
10	Case	CNB1764
11	Antenna Select Unit	CWX2200
12	Plug(CN502)	CKS1222
13	Plug(CN501)	CKS2812
14	Antenna Jack(CN503)	CKX1006
15	Screw	BSZ30P060FMC
16	Cord Assy	CDE5872
17	Cord Assy	CDE5873
18	Cord	CDE5878
19	Cord Assy	CDE5879
20	Chassis	CNA2151
21	Insulator	CNM6162
22	TV Modulator Unit	See Contrast table(2)
23	Screw	BMZ26P060FUC
24	Cord	See Contrast table(2)
25	Clamper	CEF1008
26	Plug(CN901)	CKS-462
27	Plug(CN802)	CKS-570
28	Plug(CN803)	CKS2717
29	Connector(CN1001)	See Contrast table(2)
30	Connector(CN651)	CKS3409
31	Connector(CN652)	CKS3414
32	Connector(CN801)	CKS3582
33	Connector(CN804)	CKS3586
34	Connector(CN4801)	CKS3644
35	Connector(CN3801)	CKS3645
36	Jack(CN501)	CKS3727
37	Connector(CN721)	CKS4124
38	Connector(CN1002)	See Contrast table(2)
39	Holder	CNC7047
40	Holder	CNC7634
41	Holder	CNC7838
42	Holder	CNC8205
43	Holder	CNC8207
44	Holder	CNC8208
45	Resistor	RS1/2P102JL
46	TV Front End	See Contrast table(2)
47	Transistor(Q930,935)	2SD2396
48	Spacer	CNM6437

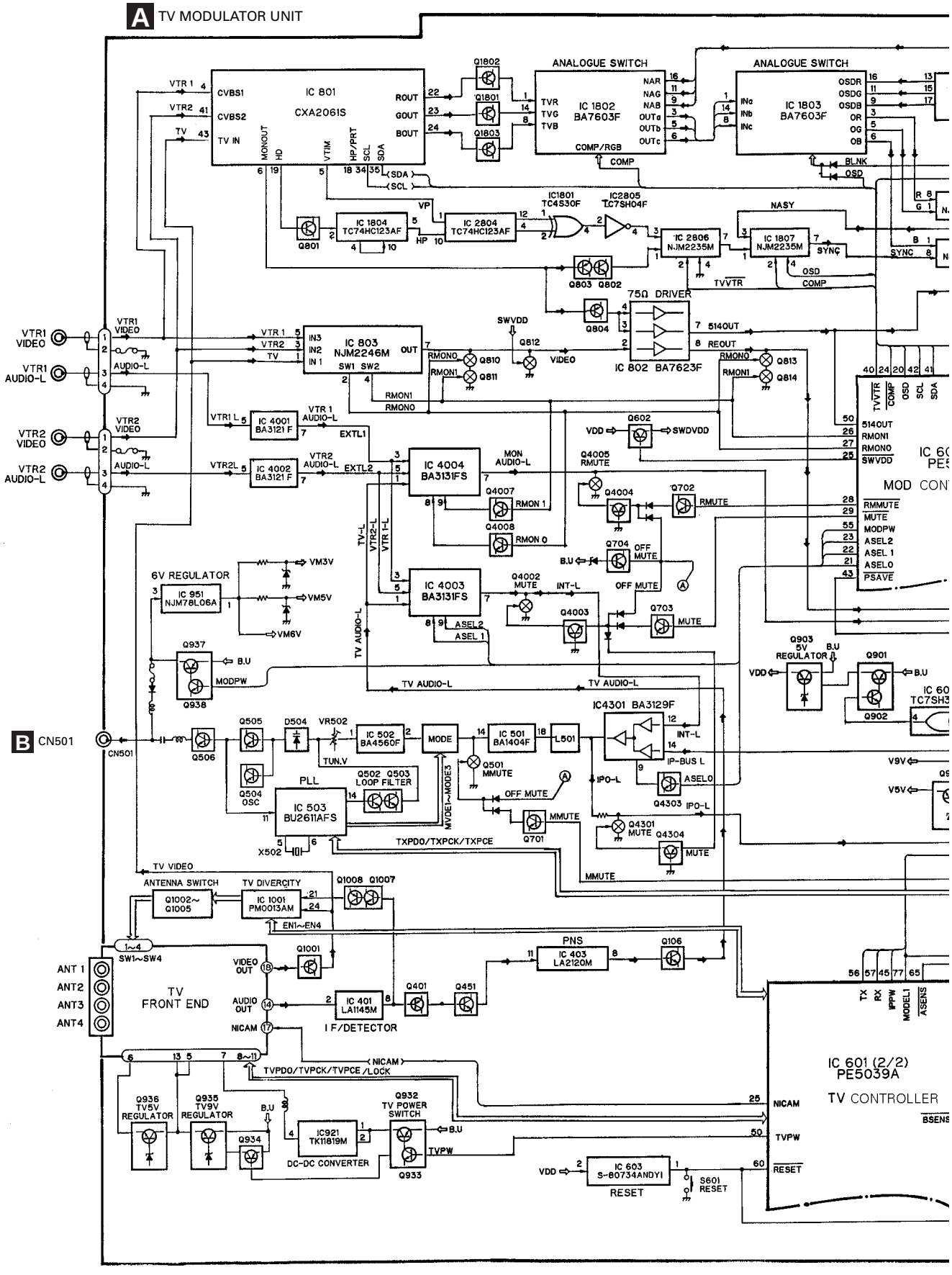
(2) CONTRAST TABLE

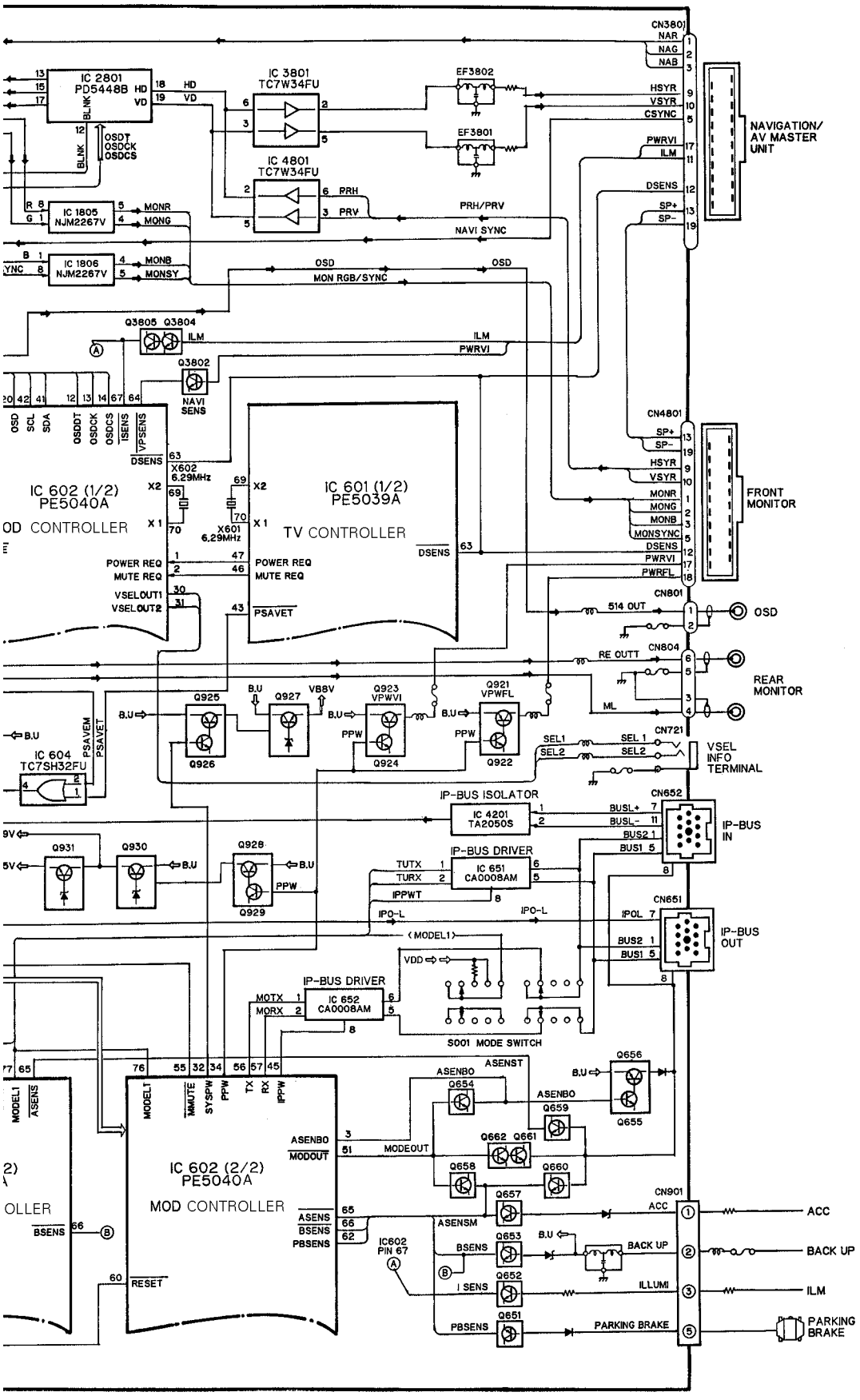
GEX-P7000TV/UC, GEX-P7000TV/ES, GEX-P7000TVP/EW and GEX-P7000TVP/ES are constructed the same except for the following:

Mark No.	Symbol and Description	Part No.			
		GEX-P7000TV/UC	GEX-P7000TV/ES	GEX-P7000TVP/EW	GEX-P7000TVP/ES
5	Case	CNB2439	CNB2439	CNB2437	CNB2437
22	TV Modulator Unit	CWM6345	CWM6510	CWM6346	CWM6511
24	Cord	CDE6010	CDE6010	Not used	Not used
29	Connector(CN1001)	CKS3124	CKS3124	Not used	Not used
38	Connector(CN1002)	CKS4198	CKS4198	Not used	Not used
46	TV Front End	CWB1085	CWB1085	CWB1086	CWB1086

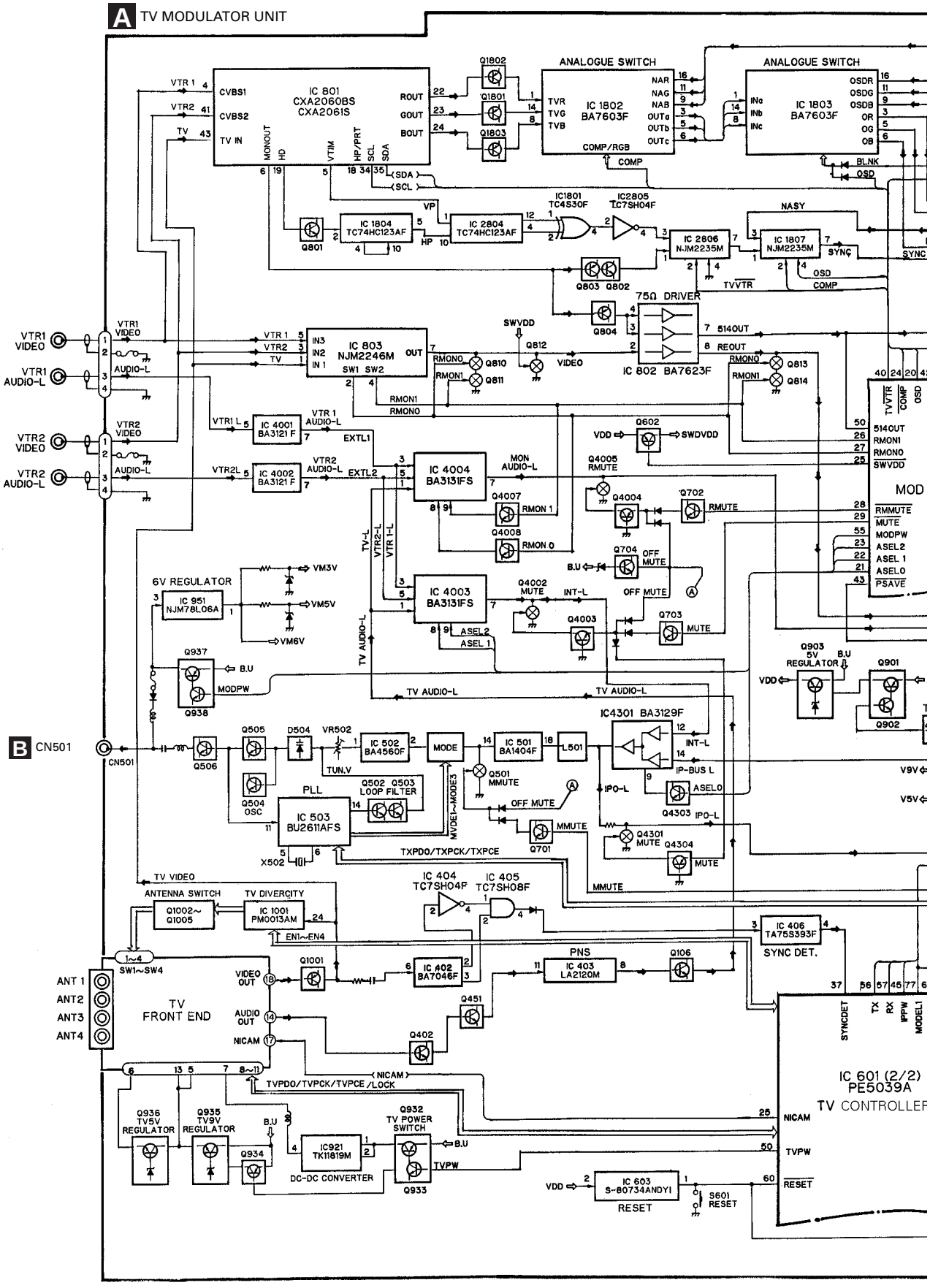
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

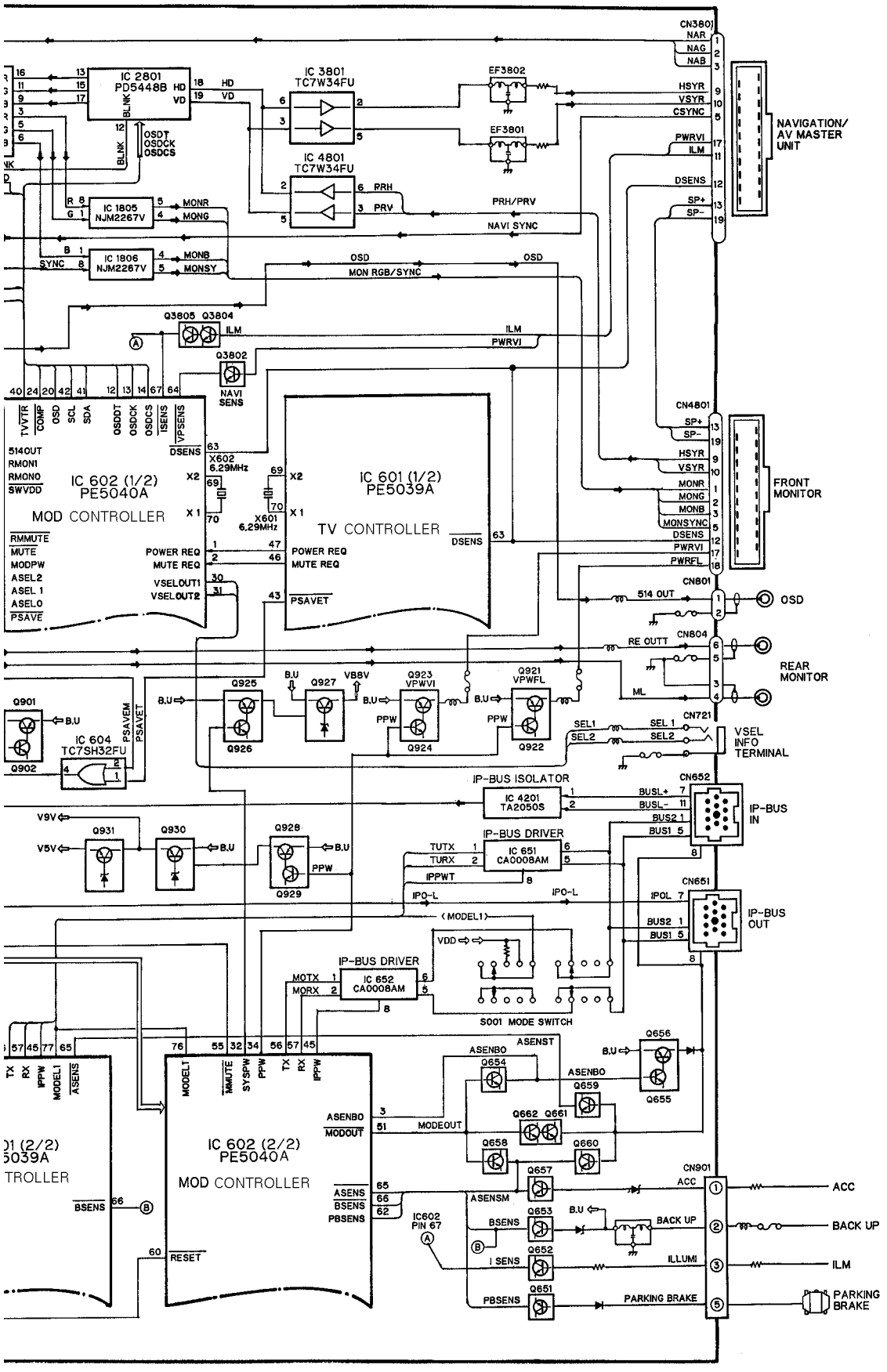
3.1 BLOCK DIAGRAM(GEX-P7000TV)




IC 2801
PD5448B
IC 3801
TC7W34FU
IC 4801
TC7W34FU
EF3802
EF3801
IC 1805
NJM2267V
IC 1806
NJM2267V
CN3801
NAR
NAG
NAB
HSYR
VSYR
CSYNC
PWRVI
ILM
DSENS
SP+
SP-
NAVIGATION/
AV MASTER
UNIT
PRH/PRV
NAVI SYNC
OSD
MON RGB/SYNC
Q3805 Q3804
Q3802
NAVI
SENS
CN4801
FRONT
MONITOR
IC 602 (1/2)
PE5040A
OD CONTROLLER
IC 601 (1/2)
PE5039A
TV CONTROLLER
X602
6.29MHz
X601
6.29MHz
POWER REQ
MUTE REQ
VSELOUT1
VSELOUT2
PSAVET
CN801
514 OUT
OSD
CN804
RE OUTT
REAR
MONITOR
ML
CN721
VSEL
INFO
TERMINAL
IC 604
TC7SH32FU
Q925
Q926
Q927
Q923
VPWVI
Q924
Q921
VPWFL
Q922
IP-BUS ISOLATOR
IC 4201
TA2050S
CN652
IP-BUS
IN
IP-BUS DRIVER
IC 651
CA0008AM
CN651
IP-BUS
OUT
Q931
Q930
Q928
Q929
IPPWT
IPO-L
MODEL1
VDD
IP-BUS DRIVER
IC 652
CA0008AM
S001 MODE SWITCH
Q656
Q655
Q654
Q659
Q662 Q661
Q658
Q660
Q657
IC 602 (2/2)
PE5040A
MOD CONTROLLER
MODEOUT
ASENBO
ASENST
ASENSM
RESET
IC602
PIN 67
CN901
ACC
BACK UP
ILLUMI
PARKING BRAKE
Q653
Q652
Q651

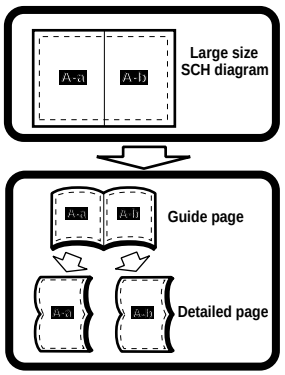
3.2 BLOCK DIAGRAM(GEX-P7000TVP)



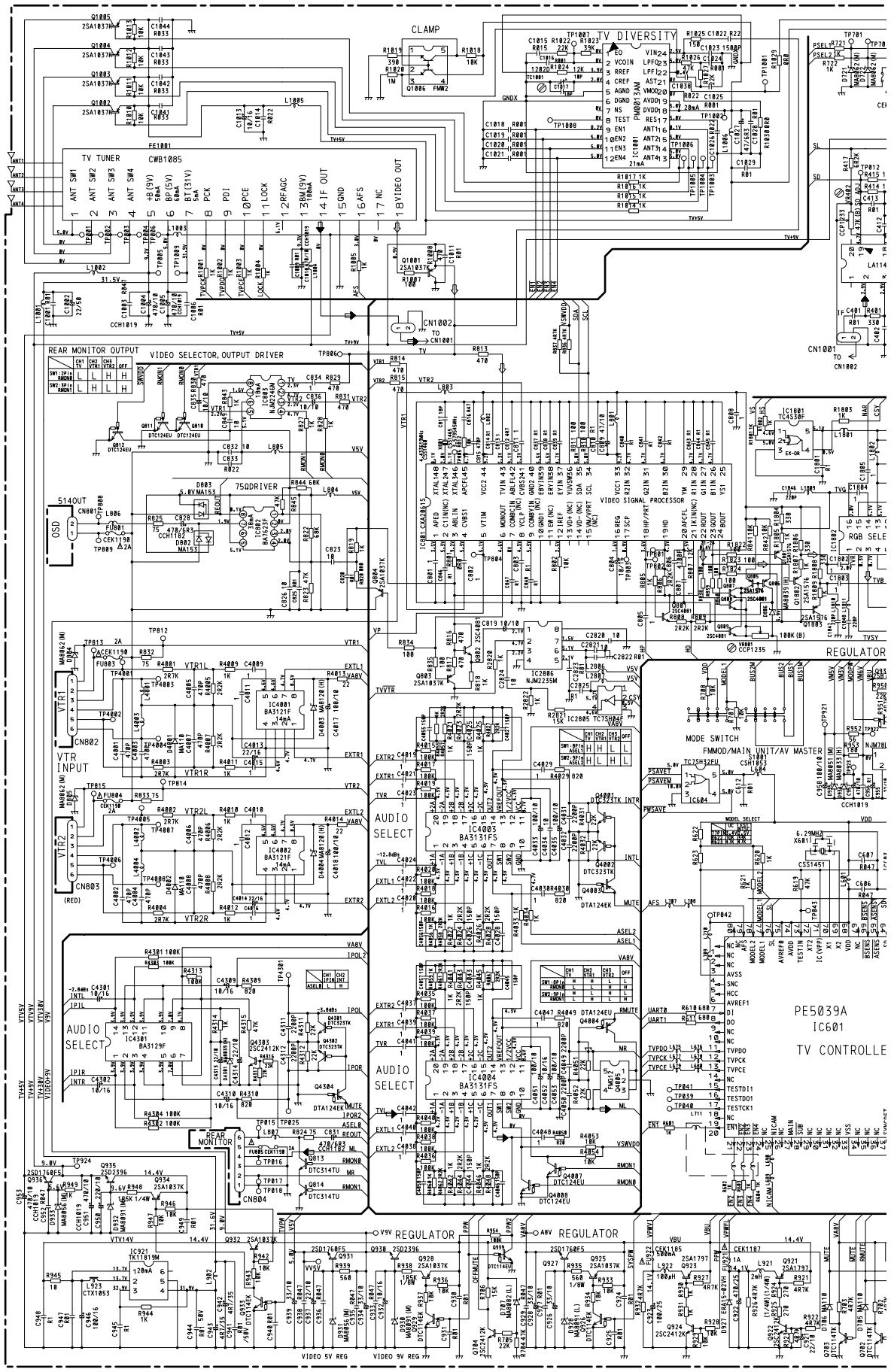

IC 2801
PD5448B
IC 3801
TC7W34FU
IC 4801
TC7W34FU
IC 1805
NJM2267V
IC 1806
NJM2267V
EF3802
EF3801
CN3801
NAVIGATION/
AV MASTER
UNIT
CN4801
FRONT
MONITOR
CN801
OSD
CN804
REAR
MONITOR
CN721
VSEL
INFO
TERMINAL
CN652
IP-BUS
IN
CN651
IP-BUS
OUT
CN901
ACC
BACK UP
ILM
PARKING
BRAKE
IC 602 (1/2)
PE5040A
MOD CONTROLLER
IC 601 (1/2)
PE5039A
TV CONTROLLER
IC 602 (2/2)
PE5040A
MOD CONTROLLER
IC 604
TC7SH32FU
IP-BUS ISOLATOR
IC 4201
TA2050S
IP-BUS DRIVER
IC 651
CA0008AM
IP-BUS DRIVER
IC 652
CA0008AM
S001 MODE SWITCH
NAVI SYNC
OSD
MON RGB/SYNC
NAVI
SENS
X602
6.29MHz
X601
6.29MHz
POWER REQ
MUTE REQ
PSAVET
VSELOUT1
VSELOUT2
ASENBO
ASENST
ASENSM
MODEOUT
IC602
PIN 67
RESET
BSENS
I SENS
PBSENS
ILLUMI
PARKING BRAKE
BACK UP
ACC

3.3 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)(GEX-P7000TV)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



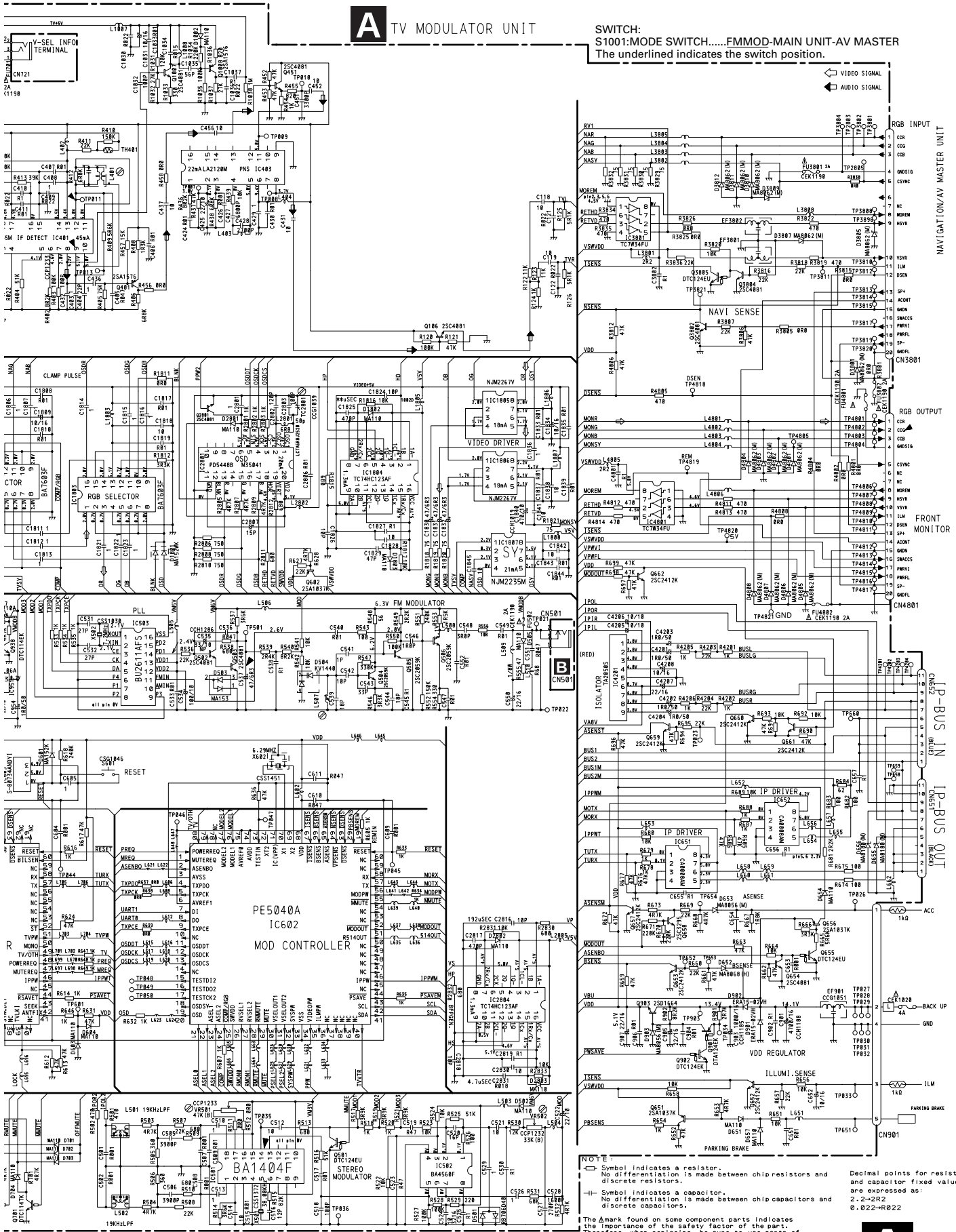
A-a



A-b

A TV MODULATOR UNIT

SWITCH:
S1001:MODE SWITCH.....FMMOD-MAIN UNIT-AV MASTER
The underlined indicates the switch position.



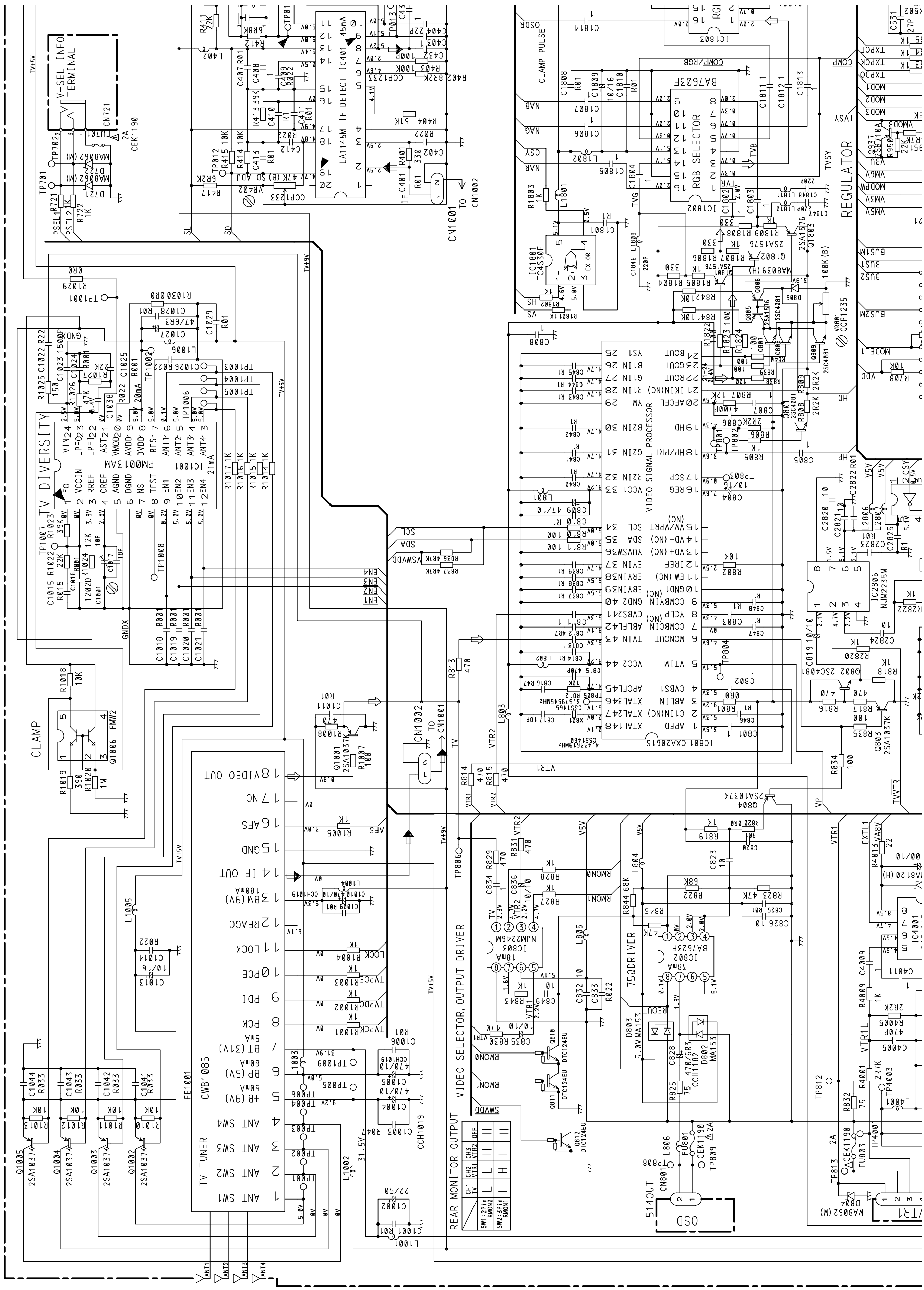
NOTE:
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

A

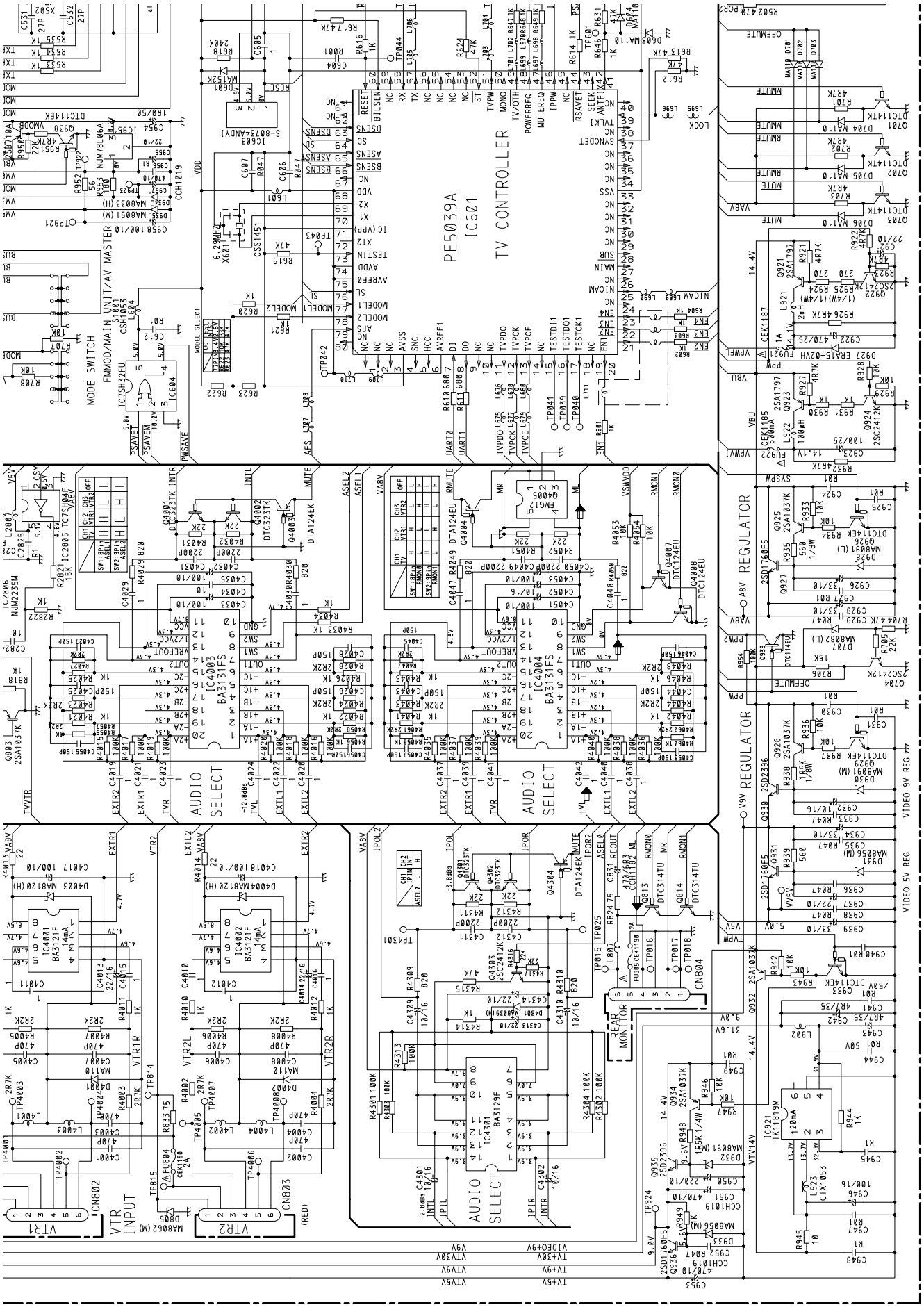
A

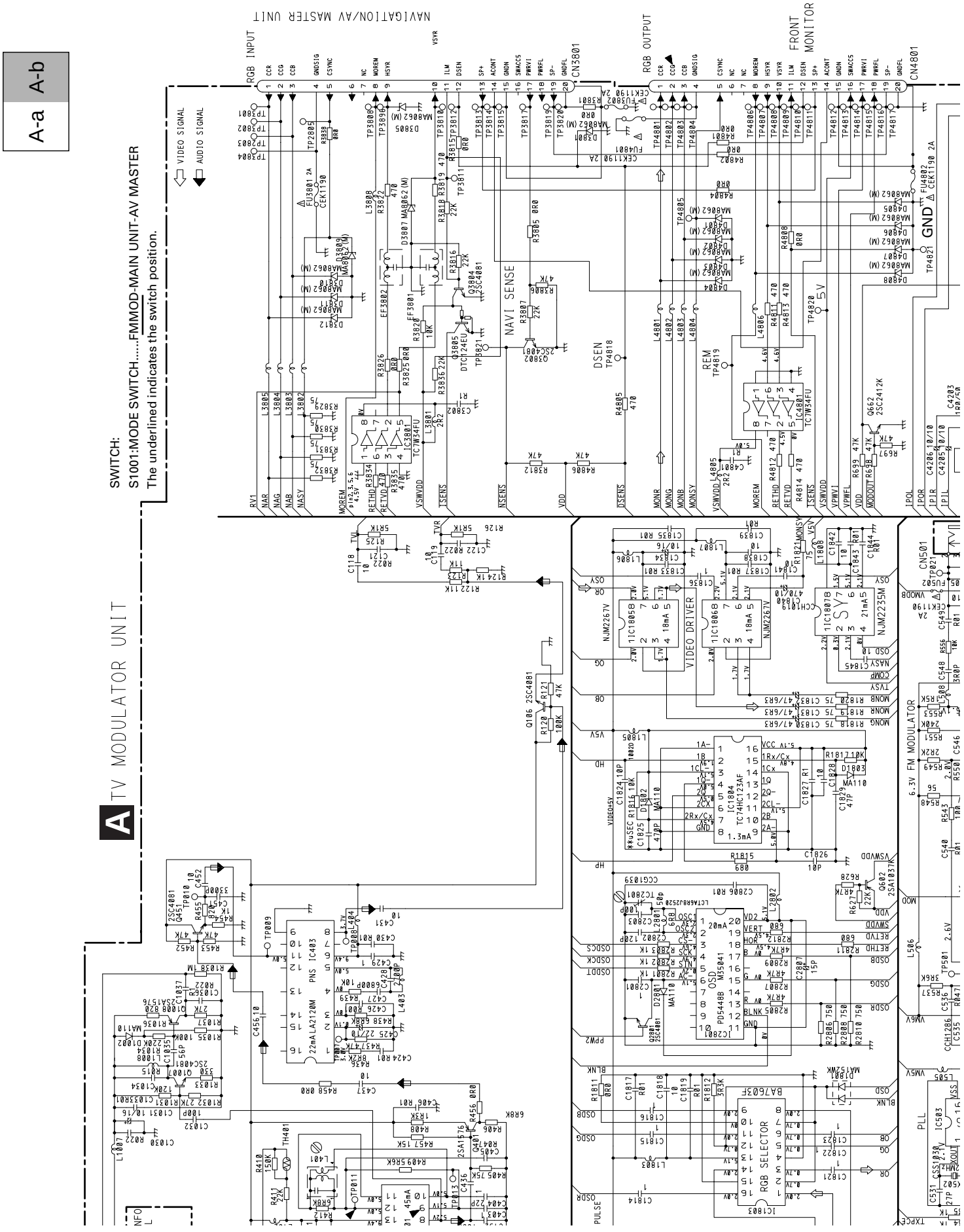

V-SEL INFO TERMINAL
CN721
LA1145M IF DETECT IC401
TV DIVERSITY
PM0013AM
IC1001
CLAMP
FMW2
Q1006
TV TUNER
CWB1085
FE1001
ANT1
ANT2
ANT3
ANT4
CLAMP PULSE
RGB SELECTOR
BA7603F
IC1802
IC1803
IC1801
TC4S30F
EX-OR
REGULATOR
VIDEO SIGNAL PROCESSOR
IC801 CXA2061S
NJM2235M
IC2806
VIDEO SELECTOR, OUTPUT DRIVER
NJM2246M
IC803
75ΩDRIVER
BA7623F
IC802
REAR MONITOR OUTPUT
OSD
514OUT
CN801
IC4001

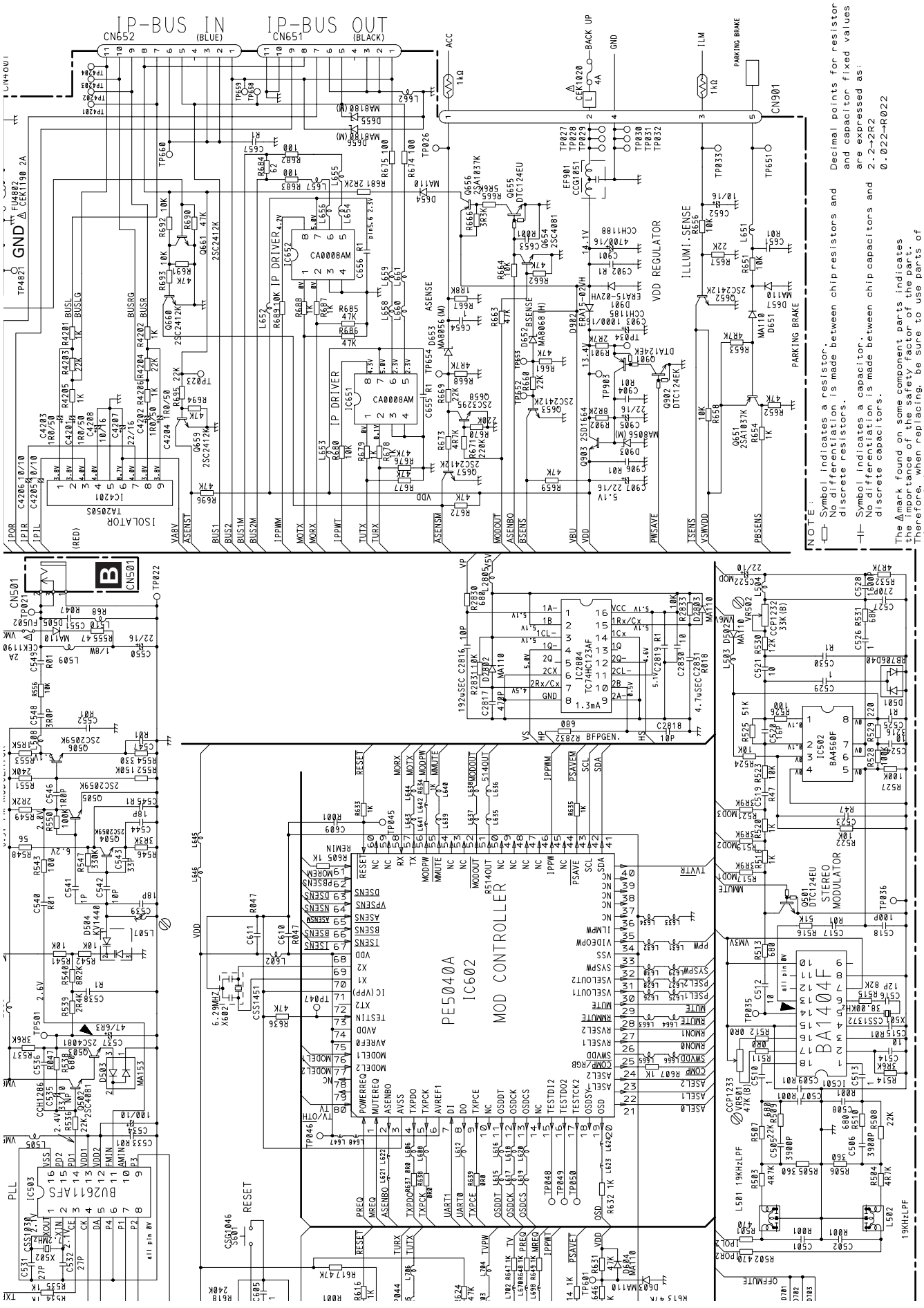
B

C

D

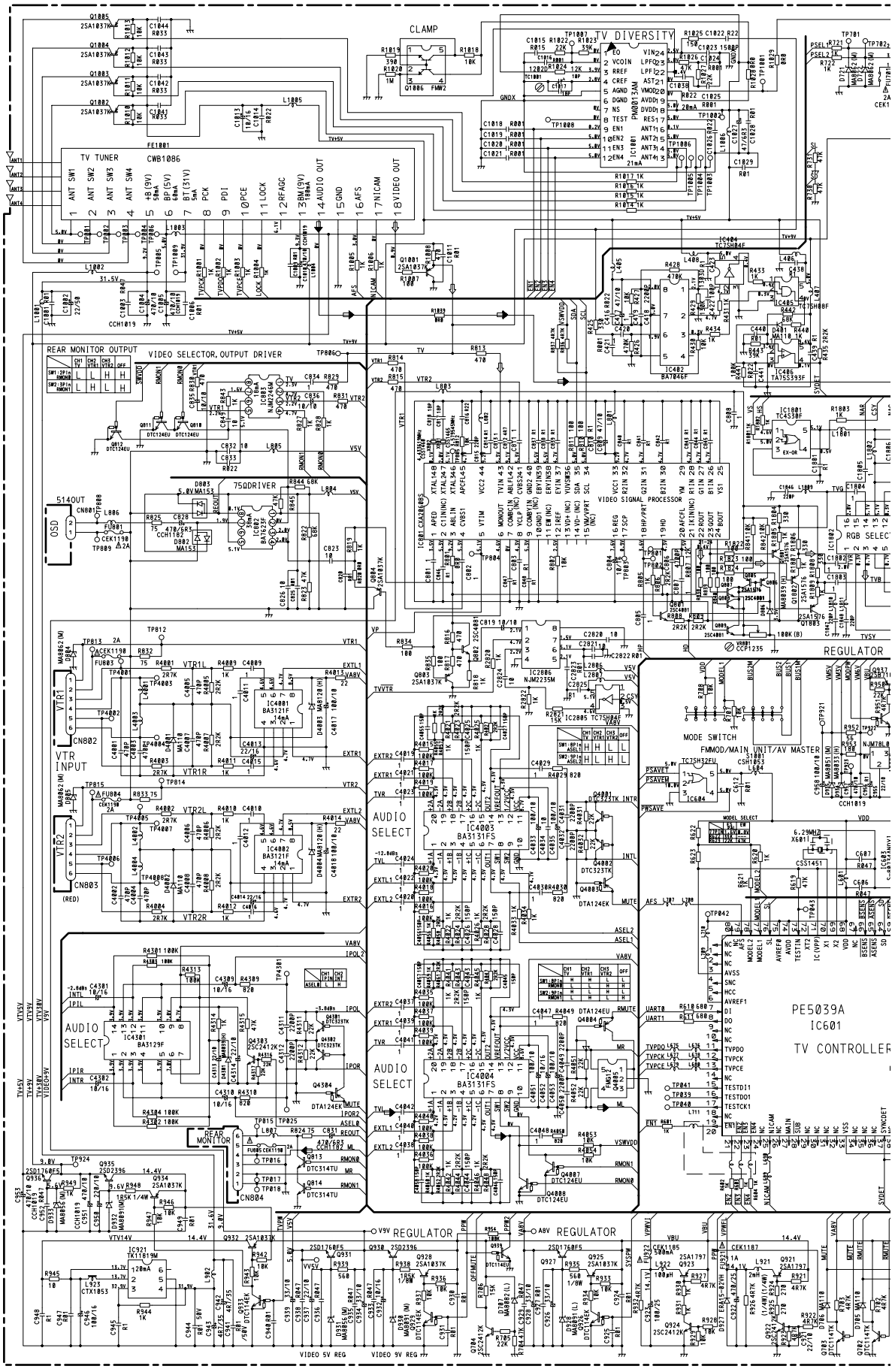

PE5039A
IC601
TV CONTROLLER
MODE SWITCH
FMMOD/MAIN UNIT/AV MASTER
AUDIO SELECT
IC4003
IC4004
BA3131FS
VIDEO 9V REG
VIDEO 5V REG
A8V REGULATOR
V3V REGULATOR
VTR INPUT
VTR1
VTR2
CN802
CN803
CN804
REMOTE MONITOR


A-a A-b
NAVIGATION/AV MASTER UNIT
RGB INPUT
RGB OUTPUT
FRONT MONITOR
CN3801
CN4801
VIDEO SIGNAL
AUDIO SIGNAL
SWITCH:
S1001:MODE SWITCH.....FMMOD-MAIN UNIT-AV MASTER
The underlined indicates the switch position.
NAVI SENSE
DSEN TP4818
REM TP4819
5V
GND
A TV MODULATOR UNIT
VIDEO DRIVER
RGB SELECTOR
PNS IC403
22mALA2120M
IC1804 TC74HC123AF
IC2801 PD5448B
OSD M35041
PLL
6.3V FM MODULATOR


IP-BUS IN
IP-BUS OUT
CN652
CN651
(BLUE)
(BLACK)
CN901
ACC
BACK UP
GND
ILM
PARKING BRAKE
IP DRIVER
VDD REGULATOR
ILLUMI. SENSE
ISOLATOR
IC4201
IC602
PE5040A
MOD CONTROLLER
STEREO MODULATOR
BA1404F
PLL
BU2611AFS
RESET
BFPGEN.
NOTE:
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
The Δmark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.
Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022
A-a A-b
A-b
15

3.4 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)(GEX-P7000TVP)

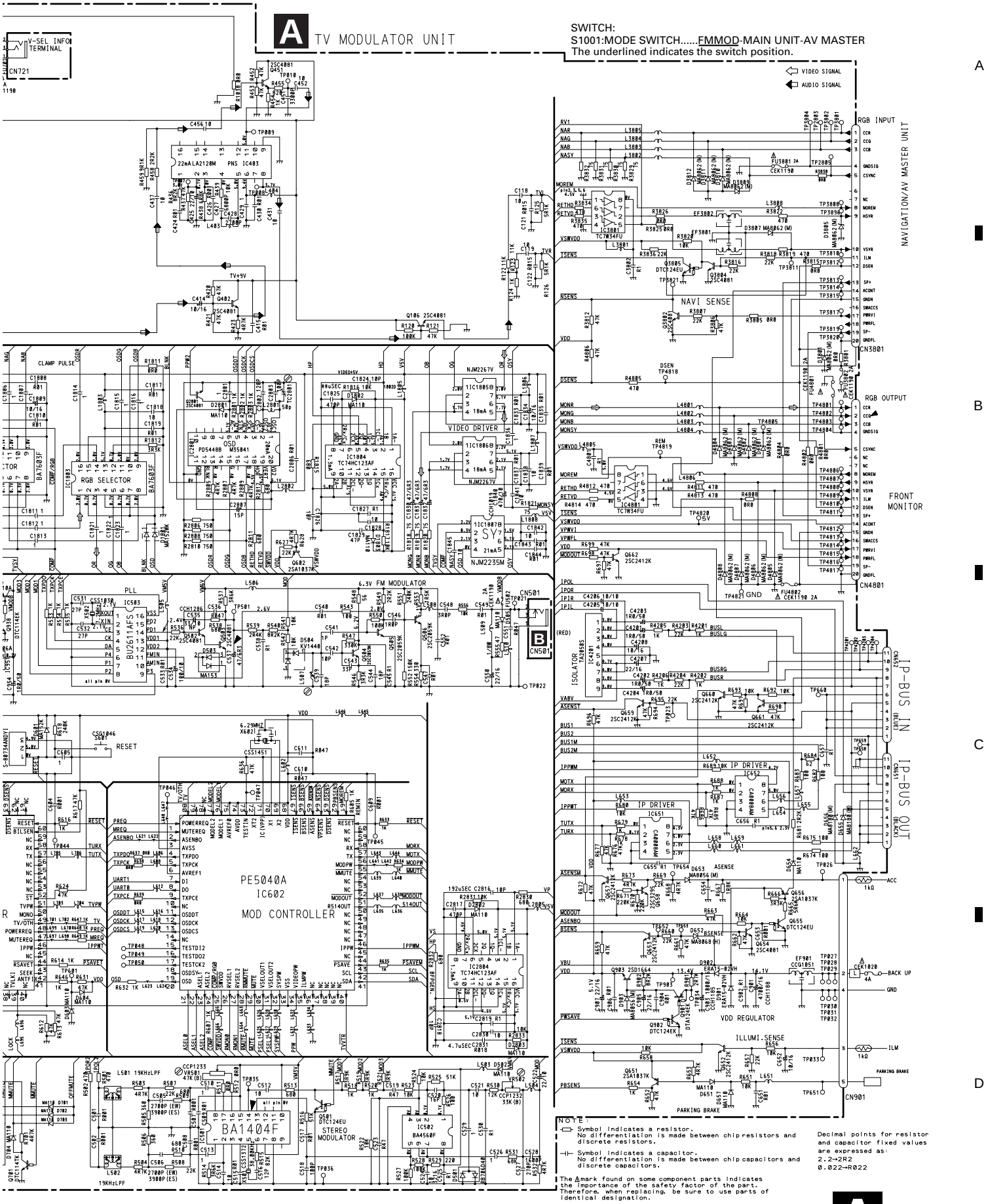
A-a



A-b

A TV MODULATOR UNIT

SWITCH:
S1001:MODE SWITCH.....FMMOD-MAIN UNIT-AV MASTER
The underlined indicates the switch position.

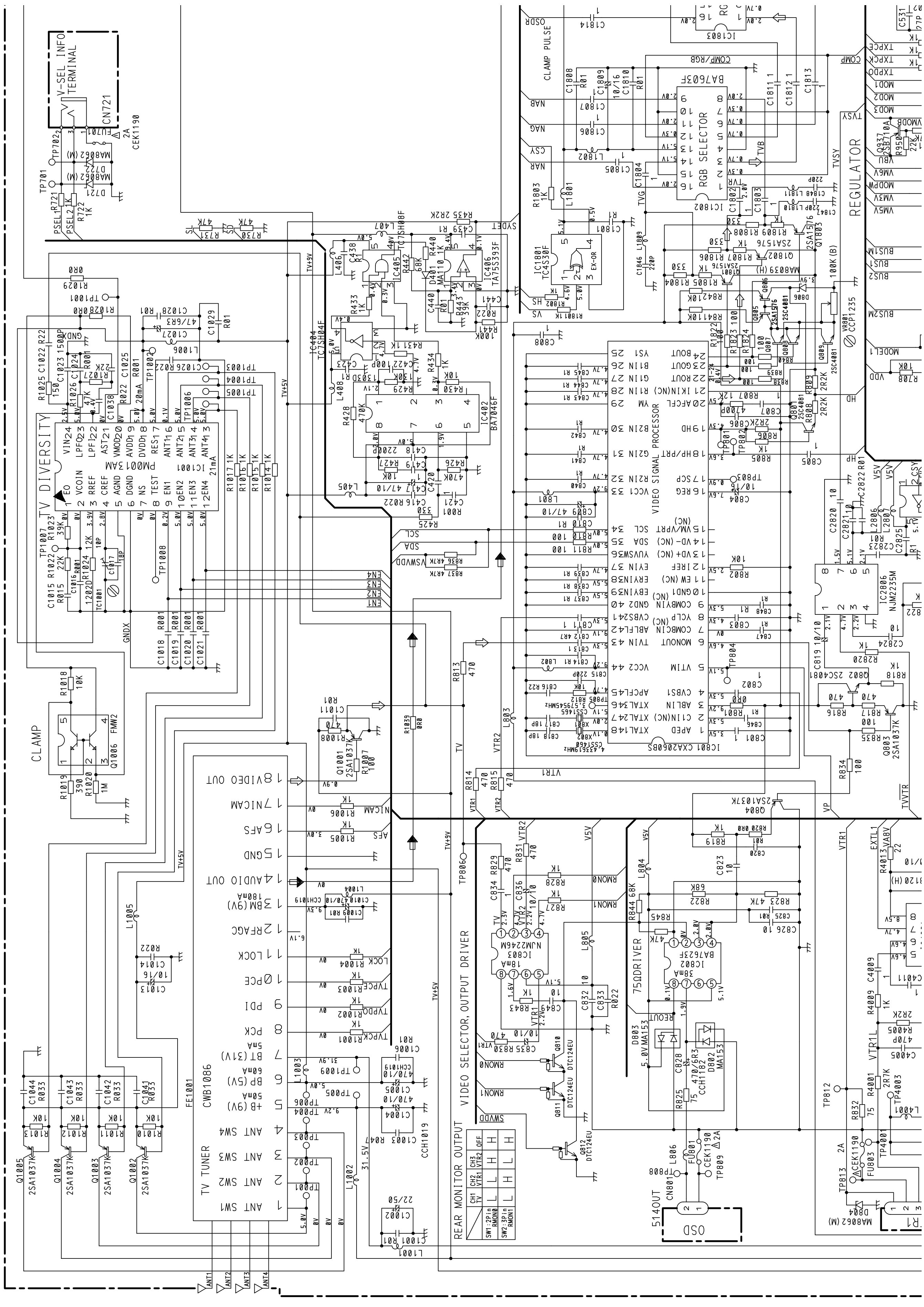


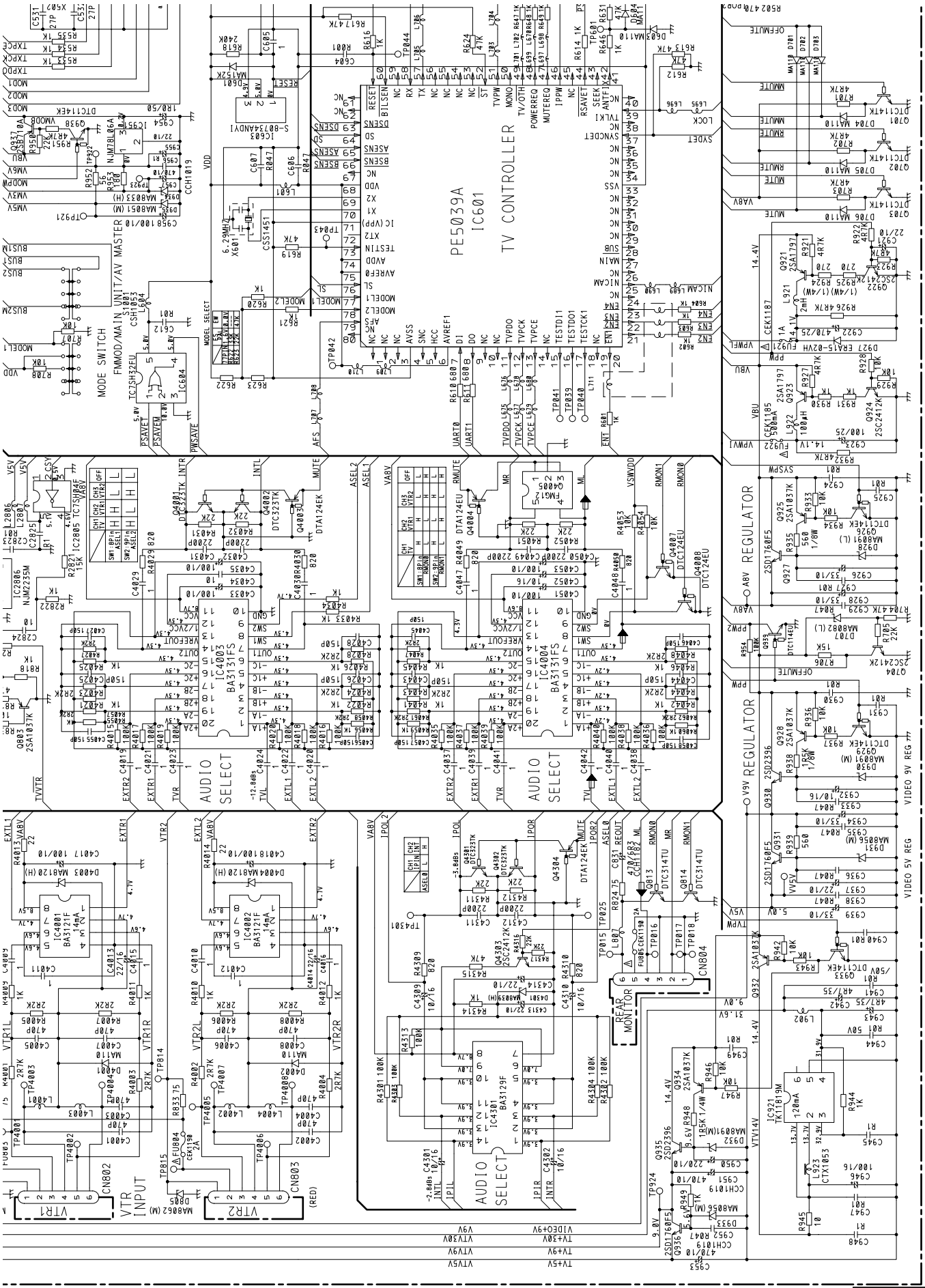
NOTE:
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

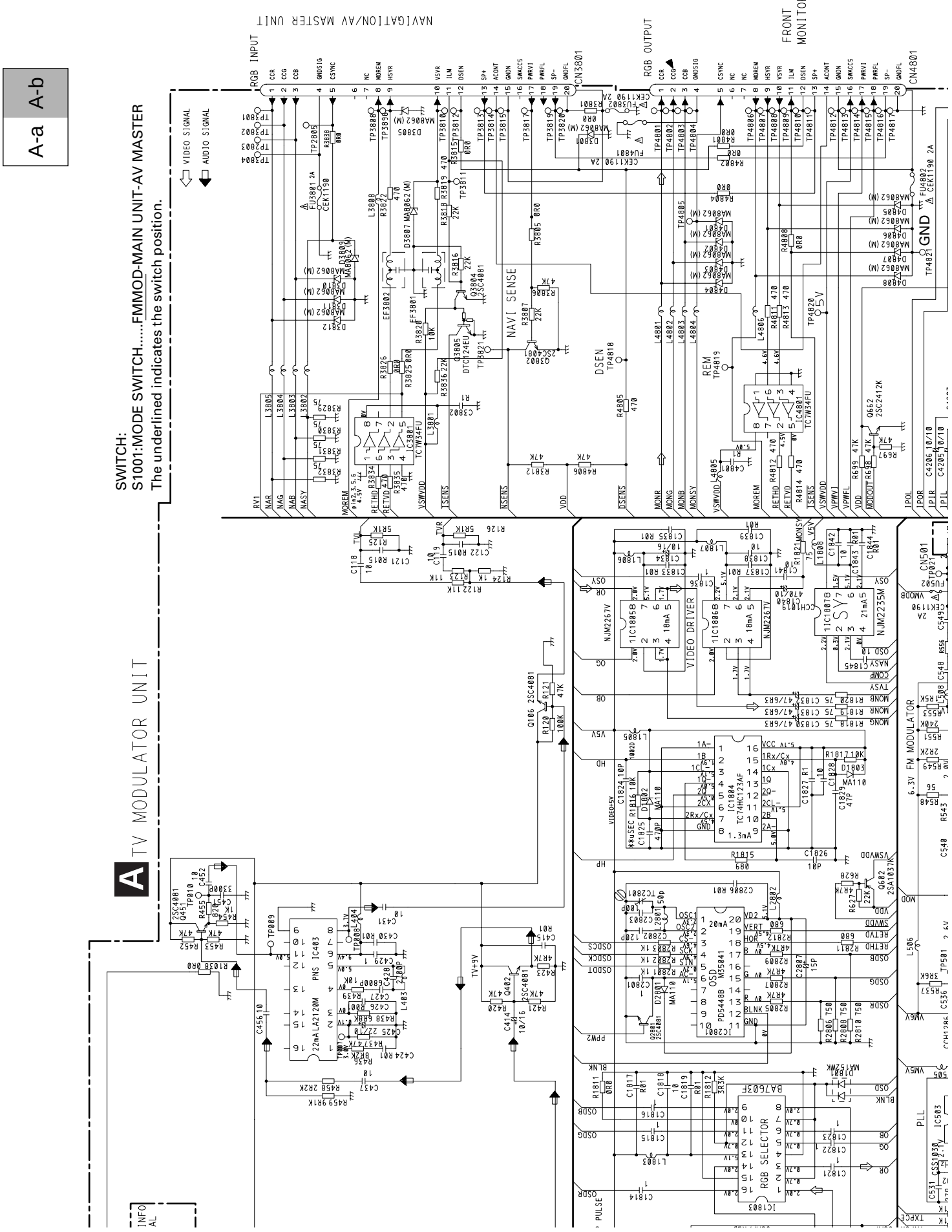
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

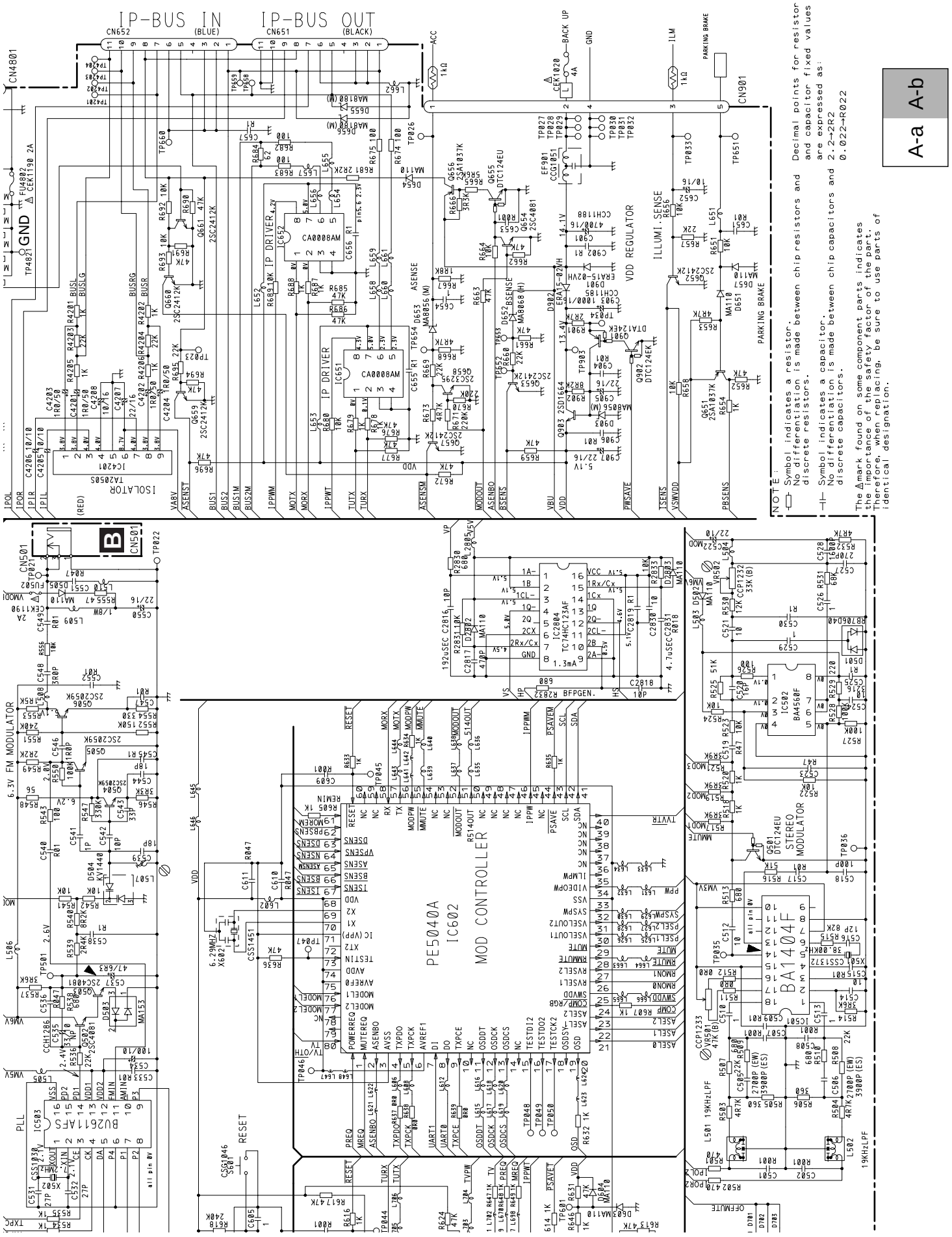
Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

A-b
A-a

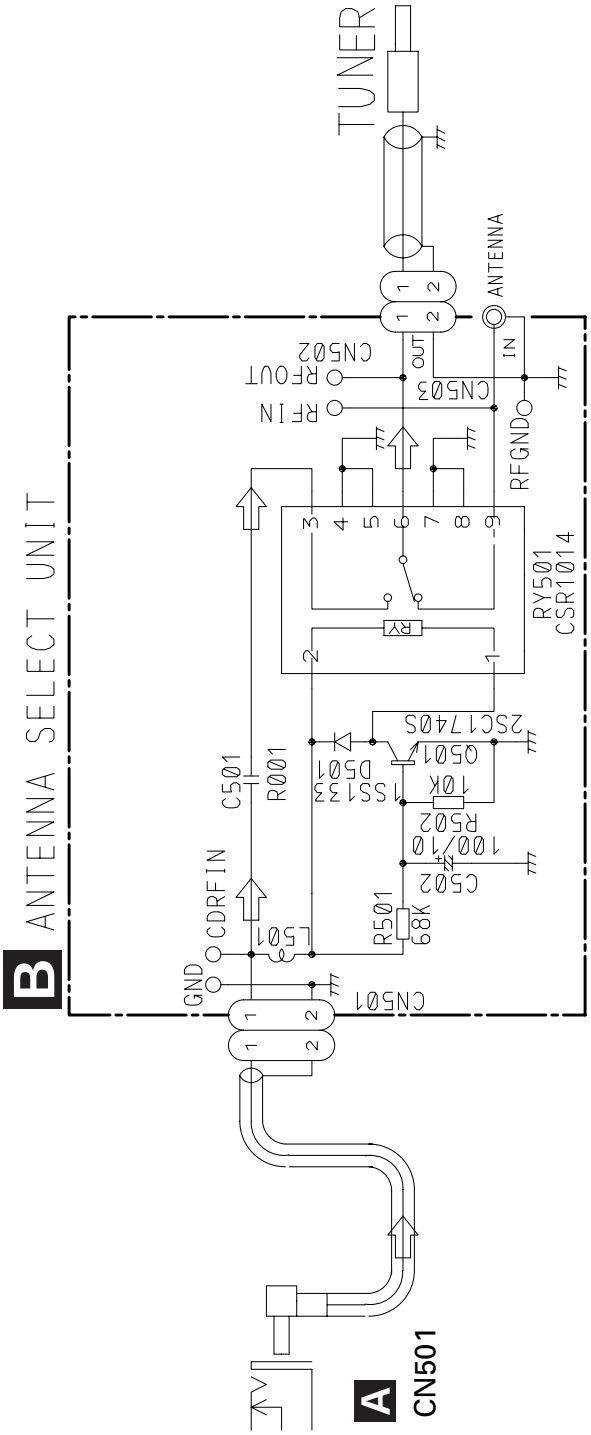

V-SEL INFO TERMINAL
CN721
TV DIVERSITY
PM0013AM
IC1001
CLAMP
Q1006 FMW2
TV TUNER
CWB1086
FE1001
VIDEO OUT
NICAM
AFS
GND
AUDIO OUT
BM (9V)
RFAGC
LOCK
PCE
PDI
PCK
BT (31V)
BP (5V)
+B (9V)
ANT SW4
ANT SW3
ANT SW2
ANT SW1
ANT1
ANT2
ANT3
ANT4
IC404 TC7SH04F
IC405 TC7SH08F
IC406 TA75S393F
IC402 BA7046F
IC1801 TC4S30F
EX-OR
CLAMP PULSE
OSDR
COMP/RGB
RGB SELECTOR
BA7603F
IC1802
IC1803
REGULATOR
VIDEO SIGNAL PROCESSOR
IC801 CXA2060BS
IC2806 NJM2235M
VIDEO SELECTOR, OUTPUT DRIVER
IC803 NJM2246M
75ΩDRIVER
IC802 BA7623F
REAR MONITOR OUTPUT
CH1 TV
CH2 VTR1
CH3 VTR2
OFF
SW1:2Pin RMON0
SW2:3Pin RMON1
514OUT
CN801
OSD


A-b
A-a
MODE SWITCH
FMMOD/MAIN UNIT/AV MASTER
TV CONTROLLER
PE5039A
IC601
REGULATOR
REGULATOR
AUDIO SELECT
AUDIO SELECT
AUDIO SELECT
VTR INPUT
VTR1
VTR2
CN802
CN803
CN804
REAR MONITOR
VIDEO 9V REG
VIDEO 5V REG
A-a


A-a A-b
SWITCH:
S1001:MODE SWITCH.....FMMOD-MAIN UNIT-AV MASTER
The underlined indicates the switch position.
VIDEO SIGNAL
AUDIO SIGNAL
NAVIGATION/AV MASTER UNIT
RGB INPUT
RGB OUTPUT
FRONT MONITOR
CN3801
CN4801
NAVI SENSE
DSEN
REM
5V
GND
A TV MODULATOR UNIT
VIDEO DRIVER
RGB SELECTOR
OSD
PLL
6.3V FM MODULATOR
INFO AL
A-b


IP-BUS IN
IP-BUS OUT
CN652
(BLUE)
CN651
(BLACK)
CN4801
CN901
ACC
BACK UP
GND
ILM
PARKING BRAKE
ISOLATOR
TA2058S
IC4201
IP BUS DRIVER
CA0008AM
IC652
IC651
VDD REGULATOR
ILLUMI. SENSE
PARKING BRAKE
6.3V FM MODULATOR
PLL
BU2611AFS
IC503
RESET
S601
PE5040A
IC602
MOD CONTROLLER
IC2804
TC74HC123AF
BFPGEN.
IC502
BA4560F
STEREO MODULATOR
Q501
DTC124EU
IC504
BA1404F
CN501
B
A-a A-b
NOTE:
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
The ⚠mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.
Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

3.5 ANTENNA SELECT UNIT

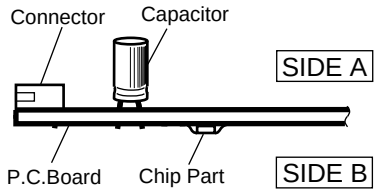


4. PCB CONNECTION DIAGRAM

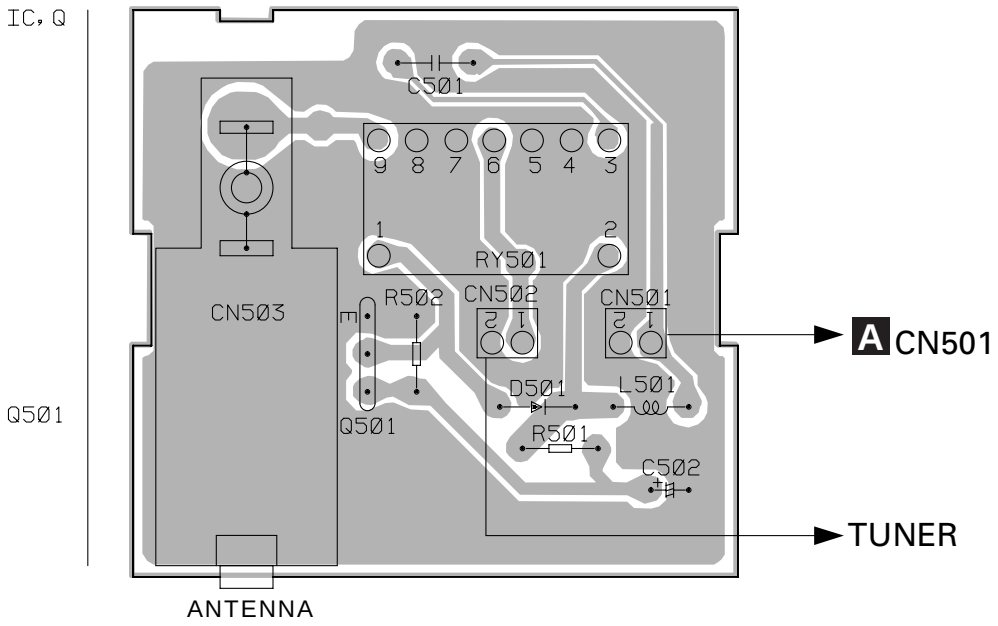
4.1 ANTENNA SELECT UNIT

NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams

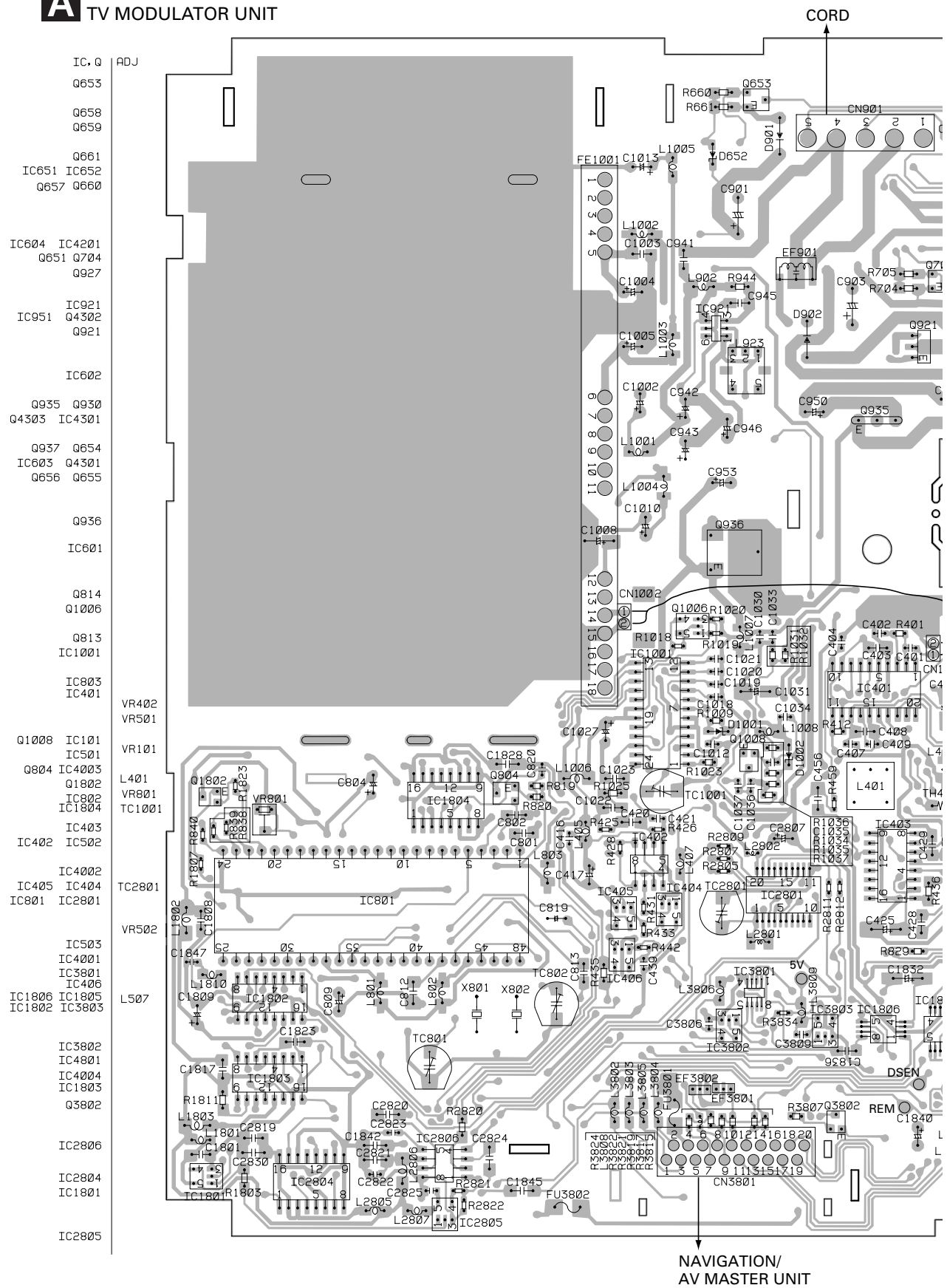


B ANTENNA SELECT UNIT

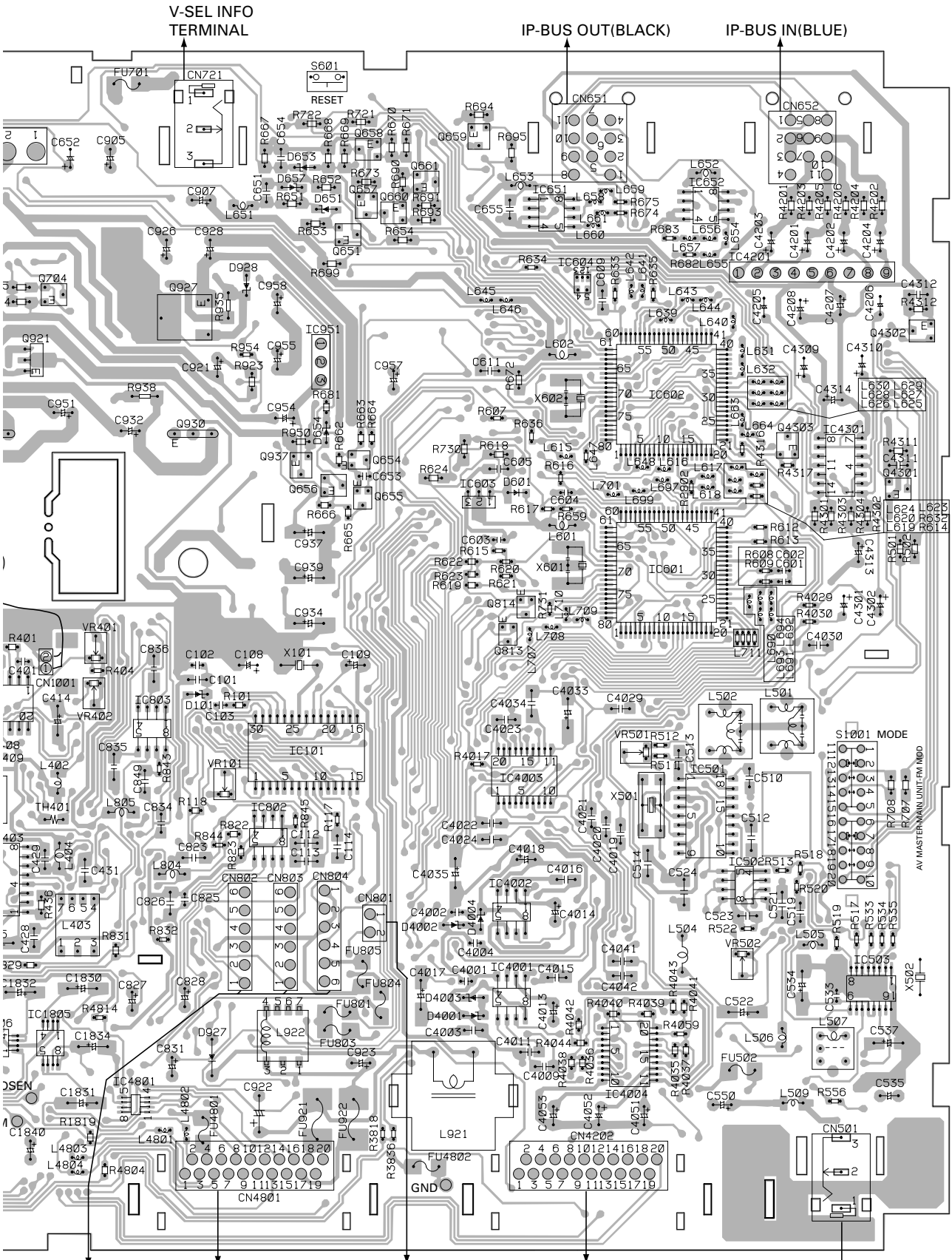


4.2 TV MODULATOR UNIT

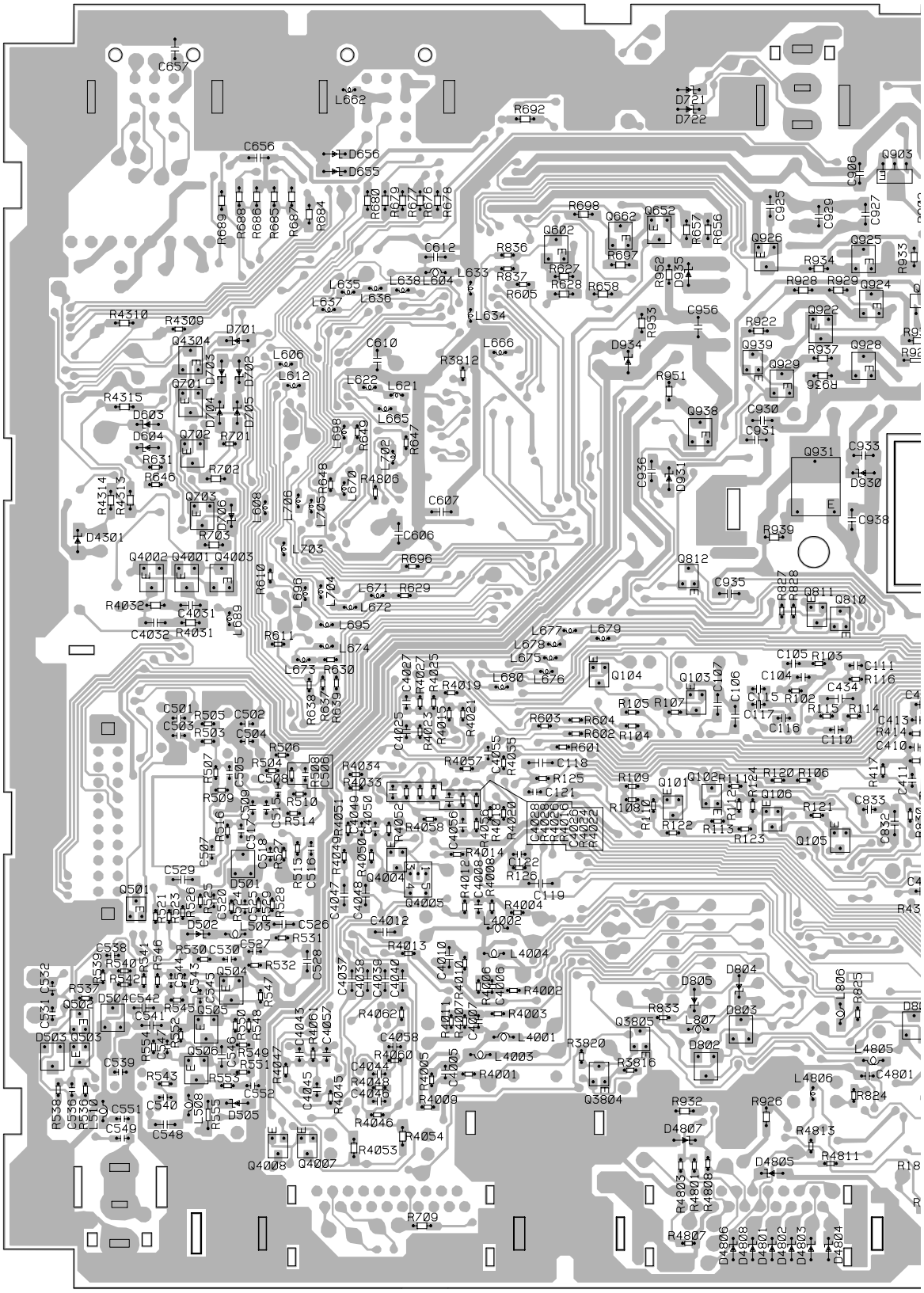
A TV MODULATOR UNIT



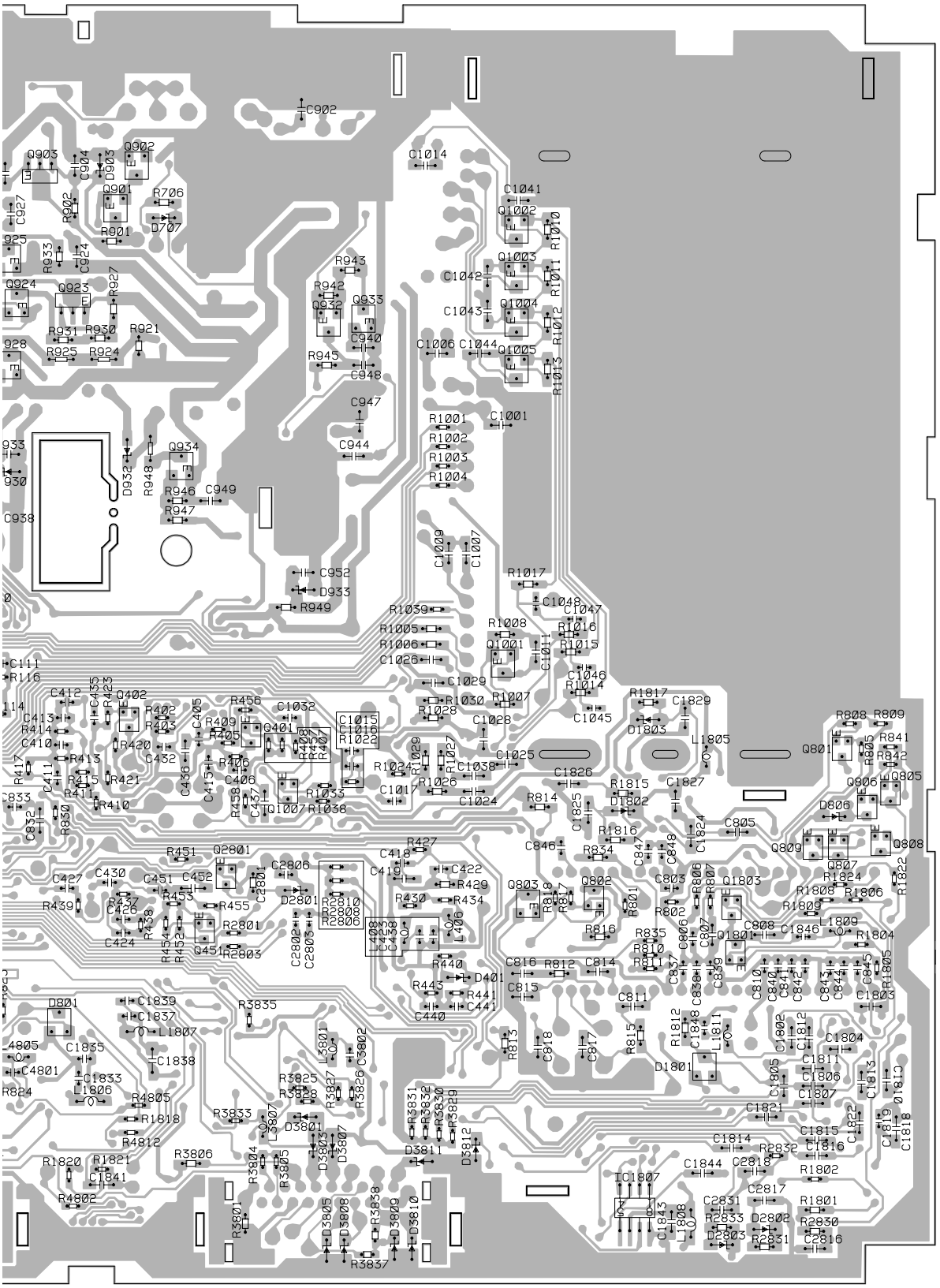
SIDE A


V-SEL INFO TERMINAL
IP-BUS OUT(BLACK)
IP-BUS IN(BLUE)
CN802:VTR1
CN803:VTR2
CN804:REAR MONITOR
FRONT MONITOR
OSD
SENSOR and SPEAKER
B CN501
S1001 MODE
AV MASTER-MAIN UNIT-RM MOD
GND

A TV MODULATOR UNIT



SIDE B


IC,Q
Q903 Q902
Q901
Q662 Q652
Q602 Q1002
Q926 Q925
Q1003
Q924 Q923
Q922 Q932
Q933 Q1004
Q4304
Q939 Q928
Q929 Q1005
Q701
Q938
Q702
Q934
Q931
Q703
Q4002 Q4001
Q4003 Q812
Q811
Q810
Q1001
Q104 Q103
Q402
Q401
Q801
Q102 Q805
Q101 Q106
Q806
Q1007
Q105
Q2801 Q809
Q807 Q808
Q501 Q4004 Q803
Q4005 Q802 Q1803
Q1801
Q451
Q504
Q502 Q505
Q3805
Q503
Q506
Q3804
Q4008 Q4007
IC1807

5. ELECTRICAL PARTS LIST

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

A Unit Number:CWM6345(GEX-P7000TV/UC)
Unit Number:CWM6510(GEX-P7000TV/ES)
Unit Name :TV Modulator Unit

MISCELLANEOUS

=====Circuit Symbol and No.		===Part Name	Part No.
IC	401	IC	LA1145M
IC	403	IC	LA2120M
IC	501	IC	BA1404F
IC	502	IC	BA4560F
IC	503	IC	BU2611AFS
IC	601	IC	PE5039A
IC	602	IC	PE5040A
IC	603	IC	S-80734ANDYI
IC	604	IC	TC7SH32FU
IC	651	IC	CA0008AM
IC	652	IC	CA0008AM
IC	801	IC	CXA2061S
IC	802	IC	BA7623F
IC	803	IC	NJM2246M
IC	921	IC	TK11819M
IC	951	IC	NJM78L06A
IC	1001	IC	PM0013AM
IC	1801	IC	TC4S30F
IC	1802	IC	BA7603F
IC	1803	IC	BA7603F
IC	1804	IC	TC74HC123AF
IC	1805	IC	NJM2267V
IC	1806	IC	NJM2267V
IC	1807	IC	NJM2235M
IC	2801	IC	PD5448B
IC	2804	IC	TC74HC123AF
IC	2805	IC	TC7SH04F
IC	2806	IC	NJM2235M
IC	3801	IC	TC7W34FU
IC	4001	IC	BA3121F
IC	4002	IC	BA3121F
IC	4003	IC	BA3131FS
IC	4004	IC	BA3131FS
IC	4201	IC	TA2050S
IC	4301	IC	BA3129F
IC	4801	IC	TC7W34FU
Q	106	Transistor	2SC4081
Q	401	Transistor	2SA1576
Q	451	Transistor	2SC4081
Q	501	Transistor	DTC124EU
Q	502	Transistor	2SC4081
Q	503	Transistor	2SC4081
Q	504	Transistor	2SC2059K
Q	505	Transistor	2SC2059K
Q	506	Transistor	2SC2059K
Q	602	Transistor	2SA1037K
Q	651	Transistor	2SA1037K
Q	652	Transistor	2SC2412K
Q	653	Transistor	2SC2412K
Q	654	Transistor	2SC4081
Q	655	Transistor	DTC124EU
Q	656	Transistor	2SA1037K
Q	657	Transistor	2SC2412K
Q	658	Transistor	2SC3295
Q	659	Transistor	2SC2412K
Q	660	Transistor	2SC2412K
Q	661	Transistor	2SC2412K
Q	662	Transistor	2SC2412K
Q	701	Transistor	DTC114TK
Q	702	Transistor	DTC114TK
Q	703	Transistor	DTC114TK
Q	704	Transistor	2SC2412K
Q	801	Transistor	2SC4081
Q	802	Transistor	2SC4081
Q	803	Transistor	2SA1037K
Q	804	Transistor	2SA1037K
Q	805	Transistor	2SA1576
Q	806	Transistor	2SA1576
Q	807	Transistor	2SC4081
Q	808	Transistor	2SC4081
Q	809	Transistor	2SC4081
Q	810	Transistor	DTC124EU
Q	811	Transistor	DTC124EU
Q	812	Transistor	DTC124EU
Q	813	Transistor	DTC314TU
Q	814	Transistor	DTC314TU
Q	901	Transistor	DTA124EK
Q	902	Transistor	DTC124EK
Q	903	Transistor	2SD1664
Q	921	Transistor	2SA1797
Q	922	Transistor	2SC2412K
Q	923	Transistor	2SA1797
Q	924	Transistor	2SC2412K
Q	925	Transistor	2SA1037K
Q	926	Transistor	DTC114EK
Q	927	Transistor	2SD1760F5
Q	928	Transistor	2SA1037K
Q	929	Transistor	DTC114EK
Q	930	Transistor	2SD2396
Q	931	Transistor	2SD1760F5
Q	932	Transistor	2SA1037K
Q	933	Transistor	DTC114EK
Q	934	Transistor	2SA1037K
Q	935	Transistor	2SD2396
Q	936	Transistor	2SD1760F5
Q	937	Transistor	2SB710A
Q	938	Transistor	DTC114EK
Q	939	Transistor	DTC114EU
Q	1001	Transistor	2SA1037K
Q	1002	Transistor	2SA1037K
Q	1003	Transistor	2SA1037K
Q	1004	Transistor	2SA1037K
Q	1005	Transistor	2SA1037K
Q	1006	Transistor	FMW2
Q	1007	Transistor	2SC4081

=====Circuit Symbol and No.		===Part Name	Part No.
Q	1008	Transistor	2SA1576
Q	1801	Transistor	2SA1576
Q	1802	Transistor	2SA1576
Q	1803	Transistor	2SA1576
Q	2801	Transistor	2SC4081
Q	3802	Transistor	2SC4081
Q	3804	Transistor	2SC4081
Q	3805	Transistor	DTC124EU
Q	4001	Transistor	DTC323TK
Q	4002	Transistor	DTC323TK
Q	4003	Transistor	DTA124EK
Q	4004	Transistor	DTA124EU
Q	4005	Transistor	FMG12
Q	4007	Transistor	DTC124EU
Q	4008	Transistor	DTC124EU
Q	4301	Transistor	DTC323TK
Q	4302	Transistor	DTC323TK
Q	4303	Transistor	2SC2412K
Q	4304	Transistor	DTA124EK
D	501	Diode	RB706D40
D	502	Diode	MA110
D	503	Diode	MA153
D	504	Diode	KV1440
D	505	Diode	MA110
D	601	Diode	MA152K
D	603	Diode	MA110
D	604	Diode	MA110
D	651	Diode	MA110
D	652	Diode	MA8068(H)
D	653	Diode	MA8056(M)
D	654	Diode	MA110
D	655	Diode	MA8180(M)
D	656	Diode	MA8180(M)
D	657	Diode	MA110
D	701	Diode	MA110
D	702	Diode	MA110
D	703	Diode	MA110
D	704	Diode	MA110
D	705	Diode	MA110
D	706	Diode	MA110
D	707	Diode	MA8082(L)
D	721	Diode	MA8062(M)
D	722	Diode	MA8062(M)
D	802	Diode	MA153
D	803	Diode	MA153
D	804	Diode	MA8062(M)
D	805	Diode	MA8062(M)
D	806	Diode	MA8039(H)
D	901	Diode	ERA15-02VH
D	902	Diode	ERA15-02VH
D	903	Diode	MA8056(M)
D	927	Diode	ERA15-02VH
D	928	Diode	MA8091(L)
D	930	Diode	MA8091(M)
D	931	Diode	MA8056(M)
D	932	Diode	MA8091(M)
D	933	Diode	MA8056(M)
D	934	Diode	MA8033(H)
D	935	Diode	MA8051(M)
D	1002	Diode	MA110
D	1801	Diode	MA152WK
D	1802	Diode	MA110
D	1803	Diode	MA110
D	2801	Diode	MA110
D	2802	Diode	MA110
D	2803	Diode	MA110
D	3801	Diode	MA8062(M)
D	3805	Diode	MA8062(M)
D	3807	Diode	MA8062(M)
D	3809	Diode	MA8062(M)

=====Circuit Symbol and No.		===Part Name	Part No.
D	3810	Diode	MA8062(M)
D	3811	Diode	MA8062(M)
D	3812	Diode	MA8062(M)
D	4001	Diode	MA110
D	4002	Diode	MA110
D	4003	Diode	MA8120(H)
D	4004	Diode	MA8120(H)
D	4301	Diode	MA8039(H)
D	4801	Diode	MA8062(M)
D	4802	Diode	MA8062(M)
D	4803	Diode	MA8062(M)
D	4804	Diode	MA8062(M)
D	4805	Diode	MA8062(M)
D	4806	Diode	MA8062(M)
D	4807	Diode	MA8062(M)
D	4808	Diode	MA8062(M)
L	401	Coil	CTC1029
L	402	Inductor	LCTA150J3225
L	403	Coil	CTX1049
L	404	Inductor	LCTB2R2K3216
L	501	Filter	CTF1333
L	502	Filter	CTF1333
L	503	Inductor	LCTB2R2K2125
L	504	Inductor	CTF1302
L	505	Inductor	LCTB2R2K2125
L	506	Inductor	LCTB2R2K2125
L	507	Coil	CTC1079
L	508	Inductor	LCTB1R0K2125
L	509	Inductor	LCTA101J3225
L	510	Inductor	LCTBR68K2125
L	601	Inductor	LCTB2R2K3216
L	602	Inductor	LCTB2R2K3216
L	604	Inductor	LCTB2R2K2125
L	606	Inductor	CTF1379
L	608	Inductor	CTF1379
L	612	Inductor	CTF1379
L	615	Inductor	CTF1379
L	616	Inductor	CTF1379
L	617	Inductor	CTF1379
L	618	Inductor	CTF1379
L	619	Inductor	CTF1379
L	620	Inductor	CTF1379
L	621	Inductor	CTF1379
L	622	Inductor	CTF1379
L	623	Inductor	CTF1379
L	624	Inductor	CTF1379
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L	626	Inductor	CTF1379
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L	628	Inductor	CTF1379
L	629	Inductor	CTF1379
L	630	Inductor	CTF1379
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L	645	Inductor	CTF1379
L	646	Inductor	CTF1379
L	647	Inductor	CTF1379
L	648	Inductor	CTF1379

=====Circuit Symbol and No.		===Part Name	Part No.
L	651	Inductor	LCTB2R2K2125
L	652	Inductor	LCTB2R2K2125
L	653	Inductor	LCTB2R2K2125
L	654	Inductor	CTF1379
L	655	Inductor	CTF1379
L	656	Inductor	CTF1379
L	657	Inductor	CTF1379
L	658	Inductor	CTF1379
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L	666	Inductor	CTF1379
L	670	Inductor	CTF1379
L	675	Inductor	CTF1379
L	676	Inductor	CTF1379
L	677	Inductor	CTF1379
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L	705	Inductor	CTF1379
L	706	Inductor	CTF1379
L	707	Inductor	CTF1379
L	708	Inductor	CTF1379
L	709	Inductor	CTF1379
L	710	Inductor	CTF1379
L	711	Inductor Array	CTF1421
L	801	Inductor	LCTA2R2J3225
L	802	Inductor	LCTA2R2J3225
L	803	Inductor	LCTA2R2J3225
L	804	Inductor	LCTB2R2K3216
L	805	Inductor	LCTB2R2K3216
L	806	Inductor	CTF1402
L	807	Inductor	CTF1402
L	902	Inductor	LCTA220J3225
L	921	Choke Coil 2mH	CTH1074
L	922	Choke Coil 100µH	CTH1157
L	923	Transformer	CTX1053
L	1001	Inductor	LCTB1R0K2125
L	1002	Inductor	LCTA2R2J3225
L	1003	Inductor	LCTA2R2J3225
L	1004	Inductor	LCTA2R2J3225
L	1005	Inductor	LCTB2R2K2125
L	1006	Inductor	LCTB2R2K3216
L	1007	Inductor	LCTA680J3225
L	1008	Inductor	LCTB101K2125
L	1801	Inductor	LCTB2R2K2125
L	1802	Inductor	LCTB2R2K3216
L	1803	Inductor	LCTB2R2K3216
L	1805	Inductor	LCTB101K2125
L	1806	Inductor	LCTB2R2K3216
L	1807	Inductor	LCTB2R2K3216
L	1808	Inductor	LCTB2R2K3216
L	1809	Inductor	LCTB2R2K2125
L	1810	Inductor	LCTB2R2K2125
L	1811	Inductor	LCTB2R2K2125

=====Circuit Symbol and No.		===Part Name	Part No.
L	2801	Inductor	LCTA6R8J2520
L	2802	Inductor	CTF1379
L	2805	Inductor	LCTB101K2125
L	2806	Inductor	LCTB2R2K3216
L	2807	Inductor	LCTB2R2K2125
L	3801	Inductor	LCTB2R2K2125
L	3802	Inductor	CTF1402
L	3803	Inductor	CTF1402
L	3804	Inductor	CTF1402
L	3805	Inductor	CTF1402
L	3808	Inductor	CTF1379
L	4001	Inductor	LCTB2R2K2125
L	4002	Inductor	LCTB2R2K2125
L	4003	Inductor	LCTB2R2K2125
L	4004	Inductor	LCTB2R2K2125
L	4801	Inductor	CTF1306
L	4802	Inductor	CTF1306
L	4803	Inductor	CTF1306
L	4804	Inductor	CTF1306
L	4805	Inductor	LCTB2R2K2125
L	4806	Inductor	CTF1379
TC	1001	Trimmer	CCL1048
TC	2801	Trimmer	CCG1039
TH	401	Thermistor	TN20-3U473K
X	501	Radiator 38.000kHz	CSS1372
X	502	Crystal Resonator 7.2MHz	CSS1030
X	601	Radiator 6.290MHz	CSS1451
X	602	Radiator 6.290MHz	CSS1451
X	801	Crystal Resonator 3.579545MHz	CSS1465
S	601	Switch(RESET)	CSG1046
S	1001	Switch(MODE)	CSH1053
VR	402	Semi-fixed 47kΩ(B)	CCP1233
VR	501	Semi-fixed 47kΩ(B)	CCP1233
VR	502	Semi-fixed 33kΩ(B)	CCP1232
VR	801	Semi-fixed 100kΩ(B)	CCP1235
FU	502	Micro-Fuse 2A	CEK1190
FU	701	Micro-Fuse 2A	CEK1190
FU	801	Micro-Fuse 2A	CEK1190
FU	803	Micro-Fuse 2A	CEK1190
FU	804	Micro-Fuse 2A	CEK1190
FU	805	Micro-Fuse 2A	CEK1190
FU	921	Micro-Fuse 1A	CEK1187
FU	922	Micro-Fuse 500mA	CEK1185
FU	3801	Micro-Fuse 2A	CEK1190
FU	3802	Micro-Fuse 2A	CEK1190
FU	4801	Micro-Fuse 2A	CEK1190
FU	4802	Micro-Fuse 2A	CEK1190
EF	901	Filter	CCG1051
EF	3801	Filter	CCG1067
EF	3802	Filter	CCG1067
FE	1001	TV Front End	CWB1085

RESISTORS

R	120	RS1/16S104J
R	121	RS1/16S473J
R	122	RS1/16S113J
R	123	RS1/16S113J
R	124	RS1/16S102J
R	125	RS1/16S512J
R	126	RS1/16S512J
R	401	RS1/16S331J
R	402	RS1/16S822J
R	403	RS1/16S104J
R	404	RS1/16S513J
R	405	RS1/16S753J
R	406	RS1/16S682J
R	408	RS1/16S132J
R	409	RS1/16S562J

=====Circuit Symbol and No.		===Part Name	Part No.
R	410		RS1/16S154J
R	411		RS1/16S223J
R	412		RS1/16S682J
R	413		RS1/16S393J
R	414		RS1/16S103J
R	415		RS1/16S103J
R	417		RS1/16S622J
R	436		RS1/10S822J
R	437		RS1/16S473J
R	438		RS1/16S682J
R	439		RS1/16S103J
R	452		RS1/16S473J
R	453		RS1/16S473J
R	454		RS1/16S102J
R	455		RS1/16S821J
R	456		RS1/16S0R0J
R	457		RS1/16S153J
R	458		RS1/16S0R0J
R	501		RS1/10S471J
R	502		RS1/10S471J
R	503		RS1/16S472J
R	504		RS1/16S472J
R	505		RS1/16S361J
R	506		RS1/16S361J
R	507		RS1/16S223J
R	508		RS1/16S223J
R	509		RS1/16S681J
R	510		RS1/16S681J
R	511		RS1/16S0R0J
R	512		RS1/16S0R0J
R	513		RS1/16S681J
R	514		RS1/16S362J
R	515		RS1/16S823J
R	516		RS1/16S513J
R	517		RS1/16S392J
R	518		RS1/16S102J
R	519		RS1/16S392J
R	520		RS1/16S102J
R	521		RS1/16S392J
R	522		RS1/16S103J
R	523		RS1/16S103J
R	524		RS1/16S103J
R	525		RS1/16S513J
R	526		RS1/16S101J
R	527		RS1/16S104J
R	528		RS1/16S104J
R	529		RS1/16S221J
R	530		RS1/16S123J
R	531		RS1/16S683J
R	532		RS1/16S472J
R	533		RS1/16S102J
R	534		RS1/16S102J
R	535		RS1/16S102J
R	536		RS1/16S223J
R	537		RS1/16S362J
R	538		RS1/16S681J
R	539		RS1/16S242J
R	540		RS1/16S822J
R	541		RS1/16S103J
R	542		RS1/16S103J
R	543		RS1/16S101J
R	546		RS1/16S332J
R	547		RS1/16S334J
R	548		RS1/16S560J
R	549		RS1/16S222J
R	550		RS1/16S104J
R	551		RS1/16S244J
R	552		RS1/16S154J
R	553		RS1/16S152J
R	554		RS1/16S331J

=====Circuit Symbol and No.		===Part Name	Part No.
R	555		RS1/8S470J
R	556		RS1/16S103J
R	601		RS1/16S102J
R	602		RS1/16S102J
R	603		RS1/16S102J
R	604		RS1/16S102J
R	605		RS1/16S102J
R	607		RS1/16S102J
R	610		RS1/16S681J
R	611		RS1/16S681J
R	612		RS1/16S473J
R	613		RS1/16S473J
R	614		RS1/16S102J
R	616		RS1/16S102J
R	617		RS1/16S473J
R	618		RS1/10S244J
R	619		RS1/16S473J
R	620		RS1/16S102J
R	621		RS1/16S102J
R	622	(GEX-P7000TV/UC)	RS1/16S103J
R	622	(GEX-P7000TV/ES)	RS1/16S333J
R	623		RS1/16S473J
R	624		RS1/10S473J
R	627		RS1/10S223J
R	628		RS1/10S472J
R	631		RS1/16S473J
R	632		RS1/16S102J
R	633		RS1/16S102J
R	634		RS1/16S102J
R	635		RS1/16S102J
R	636		RS1/16S473J
R	637		RS1/16S0R0J
R	638		RS1/16S0R0J
R	639		RS1/16S0R0J
R	646		RS1/16S102J
R	647		RS1/16S102J
R	648		RS1/16S102J
R	649		RS1/16S102J
R	651		RS1/10S103J
R	652		RS1/10S473J
R	653		RS1/10S472J
R	654		RS1/10S102J
R	656		RS1/10S103J
R	657		RS1/10S223J
R	658		RS1/10S103J
R	659		RS1/16S473J
R	660		RS1/10S223J
R	661		RS1/10S473J
R	662		RS1/16S473J
R	663		RS1/16S473J
R	664		RS1/16S103J
R	665		RS1/16S562J
R	666		RS1/16S332J
R	667		RS1/10S182J
R	668		RS1/10S472J
R	669		RS1/10S223J
R	670		RS1/10S224J
R	671		RS1/10S224J
R	672		RS1/10S473J
R	673		RS1/10S472J
R	674		RS1/16S101J
R	675		RS1/16S101J
R	676		RS1/10S473J
R	677		RS1/10S473J
R	678		RS1/10S102J
R	679		RS1/10S102J
R	680		RS1/10S103J
R	681		RS1/16S222J
R	682		RS1/16S101J
R	683		RS1/16S101J

Circuit Symbol and No.	Part Name	Part No.
R 684		RS1/10S620J
R 685		RS1/10S473J
R 686		RS1/10S473J
R 687		RS1/10S102J
R 688		RS1/10S102J
R 689		RS1/10S103J
R 690		RS1/10S473J
R 691		RS1/10S473J
R 692		RS1/10S103J
R 693		RS1/10S103J
R 694		RS1/10S473J
R 695		RS1/10S223J
R 696		RS1/16S473J
R 697		RS1/10S473J
R 698		RS1/10S473J
R 699		RS1/10S473J
R 701		RS1/16S472J
R 702		RS1/10S472J
R 703		RS1/10S472J
R 704		RS1/10S473J
R 705		RS1/10S223J
R 706		RS1/10S153J
R 707		RS1/10S103J
R 708		RS1/10S103J
R 721		RS1/10S102J
R 722		RS1/10S102J
R 801		RS1/16S0R0J
R 802		RN1/16SE1002D
R 805		RS1/16S102J
R 806		RS1/16S222J
R 807		RS1/16S123J
R 808		RS1/16S222J
R 809		RS1/16S222J
R 810		RS1/16S101J
R 811		RS1/16S101J
R 812		RS1/10S103J
R 813		RS1/10S471J
R 814		RS1/10S471J
R 815		RS1/10S471J
R 816		RS1/10S471J
R 817		RS1/16S471J
R 818		RS1/16S102J
R 819		RS1/16S102J
R 820		RS1/16S0R0J
R 822		RS1/16S683J
R 823		RS1/16S473J
R 824		RS1/16S750J
R 825		RS1/16S750J
R 827		RS1/16S102J
R 828		RS1/16S102J
R 829		RS1/16S471J
R 830		RS1/16S471J
R 831		RS1/16S471J
R 832		RS1/16S750J
R 833		RS1/16S750J
R 834		RS1/10S101J
R 835		RS1/16S101J
R 836		RS1/16S472J
R 837		RS1/16S472J
R 838		RS1/16S101J
R 839		RS1/16S101J
R 840		RS1/16S101J
R 841		RS1/16S103J
R 842		RS1/16S103J
R 843		RS1/16S102J
R 844		RS1/16S683J
R 845		RS1/16S473J
R 901		RS1/10S272J
R 902		RS1/10S822J
R 921		RS1/10S472J
R 922		RS1/10S472J
R 923		RS1/10S472J
R 924		RS1/4S271J
R 925		RS1/4S271J
R 926		RS1/10S472J
R 927		RS1/10S472J
R 928		RS1/10S103J
R 929		RS1/10S103J
R 930		RS1/10S102J
R 931		RS1/10S102J
R 932		RS1/10S472J
R 933		RS1/10S103J
R 934		RS1/10S103J
R 935		RS1/8S561J
R 936		RS1/10S103J
R 937		RS1/10S103J
R 938		RS1/8S152J
R 939		RS1/10S561J
R 942		RS1/10S103J
R 943		RS1/10S103J
R 944		RS1/10S102J
R 945		RS1/10S100J
R 946		RS1/10S103J
R 947		RS1/10S103J
R 948		RS1/4S152J
R 949		RS1/10S102J
R 950		RS1/10S223J
R 951		RS1/10S472J
R 952		RS1/10S560J
R 953		RS1/10S181J
R 954		RS1/16S104J
R 1001		RS1/16S102J
R 1002		RS1/16S102J
R 1003		RS1/16S102J
R 1004		RS1/16S102J
R 1005		RS1/10S102J
R 1007		RS1/10S101J
R 1008		RS1/10S471J
R 1010		RS1/10S103J
R 1011		RS1/10S103J
R 1012		RS1/10S103J
R 1013		RS1/10S103J
R 1014		RS1/10S102J
R 1015		RS1/10S102J
R 1016		RS1/10S102J
R 1017		RS1/10S102J
R 1018		RS1/16S103J
R 1019		RS1/16S391J
R 1020		RS1/16S105J
R 1022		RS1/16S223J
R 1023		RS1/16S393J
R 1024		RN1/16SE1202D
R 1025		RS1/10S151J
R 1026		RS1/10S473J
R 1027		RS1/10S223J
R 1029		RS1/10S0R0J
R 1030		RS1/10S0R0J
R 1031		RS1/16S124J
R 1032		RS1/16S273J
R 1033		RS1/16S331J
R 1034		RS1/16S224J
R 1035		RS1/16S104J
R 1036		RS1/16S821J
R 1037		RS1/16S273J
R 1038		RS1/16S105J
R 1801		RS1/10S102J
R 1802		RS1/16S102J
R 1803		RS1/10S102J
R 1804		RS1/16S331J
R 1805		RS1/16S102J

=====Circuit Symbol and No.	===Part Name	Part No.
R 1806		RS1/16S331J
R 1807		RS1/16S102J
R 1808		RS1/16S331J
R 1809		RS1/16S102J
R 1811		RS1/10S0R0J
R 1812		RS1/10S332J
R 1815		RS1/10S681J
R 1816	(RN1/10SE1002D)	GGC1320
R 1817	(RN1/10SE1002D)	GGC1320
R 1818		RS1/16S750J
R 1819		RS1/16S750J
R 1820		RS1/16S750J
R 1821		RS1/16S750J
R 1822		RS1/16S101J
R 1823		RS1/16S101J
R 1824		RS1/16S101J
R 2801		RS1/16S102J
R 2802		RS1/16S102J
R 2803		RS1/16S102J
R 2805		RS1/16S472J
R 2806		RS1/16S751J
R 2807		RS1/16S472J
R 2808		RS1/16S751J
R 2809		RS1/16S472J
R 2810		RS1/16S751J
R 2811		RS1/16S681J
R 2812		RS1/16S681J
R 2820		RS1/10S102J
R 2821		RS1/16S153J
R 2822		RS1/16S102J
R 2830		RS1/10S681J
R 2831	(RN1/10SE1002D)	GGC1320
R 2832		RS1/16S681J
R 2833	(RN1/10SE1002D)	GGC1320
R 3801		RS1/10S0R0J
R 3805		RS1/16S0R0J
R 3806		RS1/10S473J
R 3807		RS1/16S223J
R 3812		RS1/16S473J
R 3815		RS1/16S0R0J
R 3816		RS1/16S223J
R 3818		RS1/16S223J
R 3819		RS1/16S471J
R 3820		RS1/16S103J
R 3822		RS1/16S471J
R 3825		RS1/16S0R0J
R 3826		RS1/16S0R0J
R 3829		RS1/16S750J
R 3830		RS1/16S750J
R 3831		RS1/16S750J
R 3832		RS1/16S750J
R 3834		RS1/16S471J
R 3835		RS1/16S471J
R 3836		RS1/16S223J
R 3838		RS1/16S0R0J
R 4001		RS1/16S272J
R 4002		RS1/16S272J
R 4003		RS1/16S272J
R 4004		RS1/16S272J
R 4005		RS1/16S222J
R 4006		RS1/16S222J
R 4007		RS1/16S222J
R 4008		RS1/16S222J
R 4009		RS1/16S102J
R 4010		RS1/16S102J
R 4011		RS1/16S102J
R 4012		RS1/16S102J
R 4013		RS1/16S220J
R 4014		RS1/16S220J
R 4015		RS1/16S104J

=====Circuit Symbol and No.	===Part Name	Part No.
R 4016		RS1/16S104J
R 4017		RS1/16S104J
R 4018		RS1/16S104J
R 4019		RS1/16S104J
R 4020		RS1/16S104J
R 4021		RS1/16S102J
R 4022		RS1/16S102J
R 4023		RS1/16S222J
R 4024		RS1/16S222J
R 4025		RS1/16S102J
R 4026		RS1/16S102J
R 4027		RS1/16S222J
R 4028		RS1/16S222J
R 4029		RS1/16S821J
R 4030		RS1/16S821J
R 4031		RS1/10S223J
R 4032		RS1/10S223J
R 4033		RS1/16S102J
R 4034		RS1/16S102J
R 4035		RS1/16S104J
R 4036		RS1/16S104J
R 4037		RS1/16S104J
R 4038		RS1/16S104J
R 4039		RS1/16S104J
R 4040		RS1/16S104J
R 4041		RS1/16S102J
R 4042		RS1/16S102J
R 4043		RS1/16S222J
R 4044		RS1/16S222J
R 4045		RS1/16S102J
R 4046		RS1/16S102J
R 4047		RS1/16S222J
R 4048		RS1/16S222J
R 4049		RS1/16S821J
R 4050		RS1/16S821J
R 4051		RS1/16S223J
R 4052		RS1/16S223J
R 4053		RS1/10S103J
R 4054		RS1/10S103J
R 4055		RS1/16S102J
R 4056		RS1/16S102J
R 4057		RS1/16S222J
R 4058		RS1/16S222J
R 4059		RS1/16S102J
R 4060		RS1/16S102J
R 4061		RS1/16S222J
R 4062		RS1/16S222J
R 4201		RS1/10S102J
R 4202		RS1/10S102J
R 4203		RS1/10S223J
R 4204		RS1/10S223J
R 4205		RS1/10S102J
R 4206		RS1/10S102J
R 4301		RS1/10S104J
R 4302		RS1/10S104J
R 4303		RS1/10S104J
R 4304		RS1/10S104J
R 4309		RS1/16S821J
R 4310		RS1/10S821J
R 4311		RS1/10S223J
R 4312		RS1/10S223J
R 4313		RS1/10S104J
R 4314		RS1/10S102J
R 4315		RS1/10S473J
R 4316		RS1/16S223J
R 4317		RS1/16S223J
R 4801		RS1/16S0R0J
R 4802		RS1/16S0R0J
R 4804		RS1/16S0R0J
R 4805		RS1/16S471J

=====Circuit Symbol and No.	===	Part Name	Part No.
R	4806		RS1/16S473J
R	4808		RS1/16S0R0J
R	4811		RS1/16S471J
R	4812		RS1/16S471J
R	4813		RS1/16S471J
R	4814		RS1/16S471J

CAPACITORS

C	118		CKSYB106K6R3
C	119		CKSYB106K6R3
C	121		CKSRYB223K25
C	122		CKSRYB223K25
C	401		CKSRYB103K25
C	402		CKSRYB223K25
C	403		CKSQYB105K16
C	404		CCSRCH220J50
C	405		CKSRYB473K16
C	406		CKSRYB103K25
C	407		CKSRYB103K25
C	408		CKSQYB105K16
C	409		CKSRYB223K25
C	410		CKSRYB104K16
C	411		CKSRYB103K25
C	412		CKSRYB223K25
C	413		CKSRYB103K25
C	424		CKSRYB103K25
C	425		CEV220M10
C	426		CKSRYB102K50
C	427		CKSRYB682K25
C	428		CKSQYB272K50
C	429		CKSQYB105K16
C	430		CKSRYB103K25
C	431		CKSYB106K6R3
C	432		CCSRCH101J50
C	436		CKSQYB105K16
C	437		CKSYB106K6R3
C	451		CKSRYB332K50
C	452		CKSYB106K6R3
C	456		CKSYB106K6R3
C	501		CKSRYB102K50
C	502		CKSRYB102K50
C	505		CKSRYB392K50
C	506		CKSRYB392K50
C	507		CKSRYB102K50
C	508		CKSRYB102K50
C	509		CKSRYB103K25
C	510		CKSQYB105K16
C	512		CKSYB106K6R3
C	513		CKSQYB105K16
C	514		CKSYB106K6R3
C	515		CKSRYB103K25
C	516		CCSRCH120J50
C	517		CKSRYB103K25
C	518		CCSRCH101J50
C	519		CKSQYB474K16
C	520		CCSRCH160J50
C	521		CKSYB106K6R3
C	522		CEV220M10
C	523		CKSQYB474K16
C	524		CKSYB106K6R3
C	525		CKSRYB104K16
C	526		CKSQYB105K16
C	527		CCSRCH271J50
C	528		CCSQCH162J50
C	529		CKSQYB105K16
C	530		CKSRYB104K16
C	531		CCSRCH270J50
C	532		CCSRCH270J50

=====Circuit Symbol and No.	===	Part Name	Part No.
C	533		CKSRYB103K25
C	534		CEV101M10
C	535	33µF/10V	CCH1286
C	536		CKSRYB473K16
C	537		CEV470M6R3
C	538		CKSRYB104K16
C	539		CCSRCH180J50
C	540		CKSRYB103K25
C	541		CCSQCH1R0C50
C	542		CCSQCH100D50
C	543		CCSRCH330J50
C	544		CCSRCH180J50
C	545		CKSRYB104K16
C	546		CCSQCH1R0C50
C	547		CKSRYB103K25
C	548		CCSQCH3R0C50
C	549		CKSRYB103K25
C	550		CEJA220M16
C	551		CKSRYB473K16
C	552		CKSRYB103K25
C	604		CKSRYB102K50
C	605		CKSQYB105K16
C	606		CKSQYB473K16
C	607		CKSQYB473K16
C	609		CKSQYB102K50
C	610		CKSQYB473K16
C	611		CKSQYB473K16
C	612		CKSQYB103K25
C	651		CKSQYB103K25
C	652		CEJA100M16
C	653		CKSRYB102K50
C	654		CKSQYB105K16
C	655		CKSQYB104K16
C	656		CKSQYB104K16
C	657		CKSQYB104K16
C	801		CKSQYB105K16
C	802		CKSQYB105K16
C	803		CKSRYB104K16
C	804		CEJA100M16
C	805		CKSQYB105K16
C	806		CKSRYB472K50
C	807		CKSQYB105K16
C	808		CKSQYB105K16
C	809		CEJA470M10
C	810		CKSRYB104K16
C	811		CKSQYB105K16
C	812		CKSYB475K10
C	813		CKSQYB105K16
C	814		CKSQYB104K16
C	815		CCSQSL471J50
C	816		CKSQYB474K16
C	817		CCSQCH180J50
C	819		CEJANP100M10
C	820		CKSRYB103K25
C	823		CKSYB106K6R3
C	825		CKSRYB103K25
C	826		CKSYB106K6R3
C	828	470µF/6.3V	CCH1182
C	831	470µF/6.3V	CCH1182
C	832		CKSYB106K6R3
C	833		CKSRYB223K25
C	834		CKSQYB105K10
C	835		CEVNP100M10
C	836		CEVNP100M10
C	837		CKSRYB104K16

=====Circuit Symbol and No.	===Part Name	Part No.
C 838		CKSRYB104K16
C 839		CKSRYB104K16
C 840		CKSRYB104K16
C 841		CKSRYB104K16
C 842		CKSRYB104K16
C 843		CKSRYB104K16
C 844		CKSRYB104K16
C 845		CKSRYB104K16
C 846		CKSRYB104K16
C 847		CKSRYB104K16
C 848		CKSRYB104K16
C 849		CKSYB106K6R3
C 901	4700µF/16V	CCH1188
C 902		CKSQYB104K16
C 903	1000µF/16V	CCH1185
C 904		CKSQYB103K25
C 905		CEJA220M16
C 906		CKSQYB103K25
C 907		CEJA220M16
C 921		CEJA220M10
C 922		CEAS471M25
C 923		CEAS101M25
C 924		CKSQYB103K25
C 925		CKSQYB103K25
C 926		CEJA330M10
C 927		CKSQYB103K25
C 928		CEJA330M10
C 929		CKSQYB473K16
C 930		CKSQYB103K25
C 931		CKSQYB103K25
C 932		CEJA100M16
C 933		CKSQYB473K16
C 934		CEV330M10
C 935		CKSQYB473K16
C 936		CKSQYB473K16
C 937		CEV220M10
C 938		CKSQYB473K16
C 939		CEV330M10
C 940		CKSQYB103K25
C 941		CKSQYB103K50
C 942		CEJA4R7M35
C 943		CEJA4R7M35
C 944		CKSQYB103K50
C 945		CKSQYB104K50
C 946		CEJA101M16
C 947		CKSQYB103K25
C 948		CKSQYB104K16
C 949		CKSQYB103K25
C 950		CEAS221M10
C 951	470µF/10V	CCH1019
C 952		CKSQYB473K16
C 953	470µF/10V	CCH1019
C 954		CEJA1R0M50
C 955		CEJA220M10
C 956		CKSQYB104K16
C 957	470µF/10V	CCH1019
C 958		CEJA101M10
C 1001		CKSQYB103K50
C 1002		CEAS220M50
C 1003		CKSQYB473K16
C 1004	470µF/10V	CCH1019
C 1005	470µF/10V	CCH1019
C 1006		CKSQYB103K25
C 1009		CKSQYB103K25
C 1010	470µF/10V	CCH1019
C 1011		CKSQYB103K25
C 1013		CEJA100M16
C 1014		CKSQYB223K25
C 1015		CKSRYB153K25
C 1016		CKSRYB102K50

=====Circuit Symbol and No.	===Part Name	Part No.
C 1017		CCSRTH180J50
C 1018		CKSRYB102K50
C 1019		CKSRYB102K50
C 1020		CKSRYB102K50
C 1021		CKSRYB102K50
C 1022		CKSQYB224K16
C 1023		CKSQYB152K50
C 1024		CKSQYB102K50
C 1025		CKSQYB102K50
C 1026		CKSQYB223K25
C 1027		CEJA470M6R3
C 1028		CKSQYB103K25
C 1029		CKSQYB103K25
C 1030		CKSRYB223K25
C 1031		CEV100M16
C 1032		CCSRCH101J50
C 1033		CKSRYB103K25
C 1034		CKSRYB153K25
C 1035		CCSRCH560J50
C 1036		CKSRYB223K25
C 1037		CKSRYB104K16
C 1038		CKSQYB223K25
C 1041		CKSQYB333K25
C 1042		CKSQYB333K25
C 1043		CKSQYB333K25
C 1044		CKSQYB333K25
C 1801		CKSQYB104K16
C 1802		CKSQYB105K16
C 1803		CKSQYB105K16
C 1804		CKSQYB105K16
C 1805		CKSQYB105K16
C 1806		CKSQYB105K16
C 1807		CKSQYB105K16
C 1808		CKSQYB103K25
C 1809		CEJA100M16
C 1810		CKSQYB103K25
C 1811		CKSQYB105K16
C 1812		CKSQYB105K16
C 1813		CKSQYB105K16
C 1814		CKSQYB105K16
C 1815		CKSQYB105K16
C 1816		CKSQYB105K16
C 1817		CKSQYB103K25
C 1818		CKSYB106K6R3
C 1819		CKSRYB103K25
C 1821		CKSQYB105K16
C 1822		CKSQYB105K16
C 1823		CKSQYB105K16
C 1824		CCSQCH100J50
C 1825		CCSQSL471J50
C 1826		CCSQCH100J50
C 1827		CKSQYB104K16
C 1828		CKSYB106K6R3
C 1829		CKSQYB470K50
C 1830		CEV470M6R3
C 1831		CEV470M6R3
C 1832		CEV470M6R3
C 1833		CKSRYB103K25
C 1834		CEV100M16
C 1835		CKSRYB103K25
C 1836		CKSQYB105K16
C 1837		CKSRYB103K25
C 1838		CKSYB106K6R3
C 1839		CKSRYB103K25
C 1840	470µF/10V	CCH1019
C 1841		CKSYB106K6R3
C 1842		CKSYB106K6R3
C 1843		CKSQYB103K25
C 1844		CKSQYB103K25
C 1845		CKSYB106K6R3

=====Circuit Symbol and No.		===Part Name	Part No.
C	1846		CCSRCH221J50
C	1847		CCSRCH221J50
C	1848		CCSRCH221J50
C	2801		CKSQYB105K16
C	2802		CCSRUJ121J50
C	2803		CCSRUJ101J50
C	2806		CKSRYB103K25
C	2807		CASAQ150K16
C	2816		CCSQCH100J50
C	2817		CCSQSL471J50
C	2818		CCSQCH100J50
C	2819		CKSQYB104K16
C	2820		CKSYB106K6R3
C	2821		CKSYB106K6R3
C	2822		CKSRYB103K25
C	2823		CKSRYB103K25
C	2824		CKSYB106K6R3
C	2825		CKSRYB104K16
C	2830		CKSYB106K6R3
C	2831		CKSQYB183J50
C	3802		CKSRYB104K16
C	4001		CCSRSL471J50
C	4002		CCSRSL471J50
C	4003		CCSQSL471J50
C	4004		CCSRSL471J50
C	4005		CCSRSL471J50
C	4006		CCSRSL471J50
C	4007		CCSRSL471J50
C	4008		CCSRSL471J50
C	4009		CKSQYB105K16
C	4010		CKSQYB105K16
C	4011		CKSQYB105K16
C	4012		CKSQYB105K16
C	4013		CEJA220M16
C	4014		CEJA220M16
C	4015		CKSQYB105K16
C	4016		CKSQYB105K16
C	4017		CEV101M10
C	4018		CEJA101M10
C	4019		CKSQYB105K16
C	4020		CKSQYB105K16
C	4021		CKSQYB105K16
C	4022		CKSQYB105K16
C	4023		CKSQYB105K16
C	4024		CKSQYB105K16
C	4025		CCSRCH151J50
C	4026		CCSRCH151J50
C	4027		CCSRCH151J50
C	4028		CCSRCH151J50
C	4029		CKSQYB105K16
C	4030		CKSQYB105K16
C	4031		CKSQYB222K50
C	4032		CKSQYB222K50
C	4033		CEV101M10
C	4034		CKSYB106K6R3
C	4035		CEV101M10
C	4037		CKSQYB105K16
C	4038		CKSQYB105K16
C	4039		CKSQYB105K16
C	4040		CKSQYB105K16

=====Circuit Symbol and No.		===Part Name	Part No.
C	4041		CKSQYB105K16
C	4042		CKSQYB105K16
C	4043		CCSRCH151J50
C	4044		CCSRCH151J50
C	4045		CCSRCH151J50
C	4046		CCSRCH151J50
C	4047		CKSQYB105K16
C	4048		CKSQYB105K16
C	4049		CKSRYB222K50
C	4050		CKSRYB222K50
C	4051		CEJA101M10
C	4052		CEJA100M16
C	4053		CEJA101M10
C	4055		CCSRCH151J50
C	4056		CCSRCH151J50
C	4057		CCSRCH151J50
C	4058		CCSRCH151J50
C	4201		CEJA1R0M50
C	4202		CEJA1R0M50
C	4203		CEJA1R0M50
C	4204		CEJA1R0M50
C	4205		CEJANP100M10
C	4206		CEJANP100M10
C	4207		CEJA220M16
C	4208		CEJA100M16
C	4301		CEJA100M16
C	4302		CEJA100M16
C	4309		CEJA100M16
C	4310		CEJA100M16
C	4311		CKSQYB222K50
C	4312		CKSQYB222K50
C	4313		CEJA220M10
C	4314		CEJA220M10
C	4801		CKSRYB104K16

A

Unit Number:CWM6346(GEX-P7000TVP/EW)
Unit Number:CWM6511(GEX-P7000TVP/ES)
Unit Name :TV Modulator Unit

MISCELLANEOUS

IC	402	IC	BA7046F
IC	403	IC	LA2120M
IC	404	IC	TC7SH04F
IC	405	IC	TC7SH08F
IC	406	IC	TA75S393F
IC	501	IC	BA1404F
IC	502	IC	BA4560F
IC	503	IC	BU2611AFS
IC	601	IC	PE5039A
IC	602	IC	PE5040A
IC	603	IC	S-80734ANDYI
IC	604	IC	TC7SH32FU
IC	651	IC	CA0008AM
IC	652	IC	CA0008AM
IC	801	IC	CXA2060BS
IC	802	IC	BA7623F
IC	803	IC	NJM2246M
IC	921	IC	TK11819M
IC	951	IC	NJM78L06A
IC	1001	IC	PM0013AM
IC	1801	IC	TC4S30F
IC	1802	IC	BA7603F
IC	1803	IC	BA7603F
IC	1804	IC	TC74HC123AF
IC	1805	IC	NJM2267V

=====Circuit Symbol and No.		===Part Name	Part No.
IC	1806	IC	NJM2267V
IC	1807	IC	NJM2235M
IC	2801	IC	PD5448B
IC	2804	IC	TC74HC123AF
IC	2805	IC	TC7SH04F
IC	2806	IC	NJM2235M
IC	3801	IC	TC7W34FU
IC	4001	IC	BA3121F
IC	4002	IC	BA3121F
IC	4003	IC	BA3131FS
IC	4004	IC	BA3131FS
IC	4201	IC	TA2050S
IC	4301	IC	BA3129F
IC	4801	IC	TC7W34FU
Q	653	Transistor	2SC2412K
Q	654	Transistor	2SC4081
Q	655	Transistor	DTC124EU
Q	656	Transistor	2SA1037K
Q	657	Transistor	2SC2412K
Q	658	Transistor	2SC3295
Q	659	Transistor	2SC2412K
Q	660	Transistor	2SC2412K
Q	661	Transistor	2SC2412K
Q	662	Transistor	2SC2412K
Q	701	Transistor	DTC114TK
Q	702	Transistor	DTC114TK
Q	703	Transistor	DTC114TK
Q	704	Transistor	2SC2412K
Q	801	Transistor	2SC4081
Q	802	Transistor	2SC4081
Q	803	Transistor	2SA1037K
Q	804	Transistor	2SA1037K
Q	805	Transistor	2SA1576
Q	806	Transistor	2SA1576
Q	807	Transistor	2SC4081
Q	808	Transistor	2SC4081
Q	106	Transistor	2SC4081
Q	402	Transistor	2SC4081
Q	451	Transistor	2SC4081
Q	501	Transistor	DTC124EU
Q	502	Transistor	2SC4081
Q	503	Transistor	2SC4081
Q	504	Transistor	2SC2059K
Q	505	Transistor	2SC2059K
Q	506	Transistor	2SC2059K
Q	602	Transistor	2SA1037K
Q	651	Transistor	2SA1037K
Q	652	Transistor	2SC2412K
Q	809	Transistor	2SC4081
Q	810	Transistor	DTC124EU
Q	811	Transistor	DTC124EU
Q	812	Transistor	DTC124EU
Q	813	Transistor	DTC314TU
Q	814	Transistor	DTC314TU
Q	901	Transistor	DTA124EK
Q	902	Transistor	DTC124EK
Q	903	Transistor	2SD1664
Q	921	Transistor	2SA1797
Q	922	Transistor	2SC2412K
Q	923	Transistor	2SA1797
Q	924	Transistor	2SC2412K
Q	925	Transistor	2SA1037K
Q	926	Transistor	DTC114EK
Q	927	Transistor	2SD1760F5
Q	928	Transistor	2SA1037K
Q	929	Transistor	DTC114EK
Q	930	Transistor	2SD2396
Q	931	Transistor	2SD1760F5
Q	932	Transistor	2SA1037K
Q	933	Transistor	DTC114EK

=====Circuit Symbol and No.		===Part Name	Part No.
Q	934	Transistor	2SA1037K
Q	935	Transistor	2SD2396
Q	936	Transistor	2SD1760F5
Q	937	Transistor	2SB710A
Q	938	Transistor	DTC114EK
Q	939	Transistor	DTC114EU
Q	1001	Transistor	2SA1037K
Q	1002	Transistor	2SA1037K
Q	1003	Transistor	2SA1037K
Q	1004	Transistor	2SA1037K
Q	1005	Transistor	2SA1037K
Q	1006	Transistor	FMW2
Q	1801	Transistor	2SA1576
Q	1802	Transistor	2SA1576
Q	1803	Transistor	2SA1576
Q	2801	Transistor	2SC4081
Q	3802	Transistor	2SC4081
Q	3804	Transistor	2SC4081
Q	3805	Transistor	DTC124EU
Q	4001	Transistor	DTC323TK
Q	4002	Transistor	DTC323TK
Q	4003	Transistor	DTA124EK
Q	4004	Transistor	DTA124EU
Q	4005	Transistor	FMG12
Q	4007	Transistor	DTC124EU
Q	4008	Transistor	DTC124EU
Q	4301	Transistor	DTC323TK
Q	4302	Transistor	DTC323TK
Q	4303	Transistor	2SC2412K
Q	4304	Transistor	DTA124EK
D	401	Diode	MA110
D	501	Diode	RB706D40
D	502	Diode	MA110
D	503	Diode	MA153
D	504	Diode	KV1440
D	505	Diode	MA110
D	601	Diode	MA152K
D	603	Diode	MA110
D	604	Diode	MA110
D	651	Diode	MA110
D	652	Diode	MA8068(H)
D	653	Diode	MA8056(M)
D	654	Diode	MA110
D	655	Diode	MA8180(M)
D	656	Diode	MA8180(M)
D	657	Diode	MA110
D	701	Diode	MA110
D	702	Diode	MA110
D	703	Diode	MA110
D	704	Diode	MA110
D	705	Diode	MA110
D	706	Diode	MA110
D	707	Diode	MA8082(L)
D	721	Diode	MA8062(M)
D	722	Diode	MA8062(M)
D	802	Diode	MA153
D	803	Diode	MA153
D	804	Diode	MA8062(M)
D	805	Diode	MA8062(M)
D	806	Diode	MA8039(H)
D	901	Diode	ERA15-02VH
D	902	Diode	ERA15-02VH
D	903	Diode	MA8056(M)
D	927	Diode	ERA15-02VH
D	928	Diode	MA8091(L)
D	930	Diode	MA8091(M)
D	931	Diode	MA8056(M)
D	932	Diode	MA8091(M)
D	933	Diode	MA8056(M)
D	934	Diode	MA8033(H)

=====Circuit Symbol and No.		===Part Name	Part No.
D	935	Diode	MA8051(M)
D	1801	Diode	MA152WK
D	1802	Diode	MA110
D	1803	Diode	MA110
D	2801	Diode	MA110
D	2802	Diode	MA110
D	2803	Diode	MA110
D	3801	Diode	MA8062(M)
D	3805	Diode	MA8062(M)
D	3807	Diode	MA8062(M)
D	3809	Diode	MA8062(M)
D	3810	Diode	MA8062(M)
D	3811	Diode	MA8062(M)
D	3812	Diode	MA8062(M)
D	4001	Diode	MA110
D	4002	Diode	MA110
D	4003	Diode	MA8120(H)
D	4004	Diode	MA8120(H)
D	4301	Diode	MA8039(H)
D	4801	Diode	MA8062(M)
D	4802	Diode	MA8062(M)
D	4803	Diode	MA8062(M)
D	4804	Diode	MA8062(M)
D	4805	Diode	MA8062(M)
D	4806	Diode	MA8062(M)
D	4807	Diode	MA8062(M)
D	4808	Diode	MA8062(M)
L	403	Coil	CTX1049
L	404	Inductor	LCTB2R2K3216
L	405	Inductor	LCTB2R2K2125
L	406	Inductor	LCTB2R2K2125
L	407	Inductor	LCTB2R2K2125
L	408	Inductor	LCTB2R2K2125
L	501	Filter	CTF1333
L	502	Filter	CTF1333
L	503	Inductor	LCTB2R2K2125
L	504	Inductor	CTF1302
L	505	Inductor	LCTB2R2K2125
L	506	Inductor	LCTB2R2K2125
L	507	Coil	CTC1079
L	508	Inductor	LCTB1R0K2125
L	509	Inductor	LCTA101J3225
L	510	Inductor	LCTBR68K2125
L	601	Inductor	LCTB2R2K3216
L	602	Inductor	LCTB2R2K3216
L	604	Inductor	LCTB2R2K2125
L	606	Inductor	CTF1379
L	608	Inductor	CTF1379
L	612	Inductor	CTF1379
L	615	Inductor	CTF1379
L	616	Inductor	CTF1379
L	617	Inductor	CTF1379
L	618	Inductor	CTF1379
L	619	Inductor	CTF1379
L	620	Inductor	CTF1379
L	621	Inductor	CTF1379
L	622	Inductor	CTF1379
L	623	Inductor	CTF1379
L	624	Inductor	CTF1379
L	625	Inductor	CTF1379
L	626	Inductor	CTF1379
L	627	Inductor	CTF1379
L	628	Inductor	CTF1379
L	629	Inductor	CTF1379
L	630	Inductor	CTF1379
L	631	Inductor	CTF1379
L	632	Inductor	CTF1379
L	633	Inductor	CTF1379
L	634	Inductor	CTF1379
L	635	Inductor	CTF1379

=====Circuit Symbol and No.		===Part Name	Part No.
L	636	Inductor	CTF1379
L	637	Inductor	CTF1379
L	638	Inductor	CTF1379
L	639	Inductor	CTF1379
L	640	Inductor	CTF1379
L	641	Inductor	CTF1379
L	642	Inductor	CTF1379
L	643	Inductor	CTF1379
L	644	Inductor	CTF1379
L	645	Inductor	CTF1379
L	646	Inductor	CTF1379
L	647	Inductor	CTF1379
L	648	Inductor	CTF1379
L	651	Inductor	LCTB2R2K2125
L	652	Inductor	LCTB2R2K2125
L	653	Inductor	LCTB2R2K2125
L	654	Inductor	CTF1379
L	655	Inductor	CTF1379
L	656	Inductor	CTF1379
L	657	Inductor	CTF1379
L	658	Inductor	CTF1379
L	659	Inductor	CTF1379
L	660	Inductor	CTF1379
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L	664	Inductor	CTF1379
L	665	Inductor	CTF1379
L	666	Inductor	CTF1379
L	670	Inductor	CTF1379
L	675	Inductor	CTF1379
L	676	Inductor	CTF1379
L	677	Inductor	CTF1379
L	678	Inductor	CTF1379
L	679	Inductor	CTF1379
L	680	Inductor	CTF1379
L	689	Inductor	CTF1379
L	690	Inductor	CTF1379
L	695	Inductor	CTF1379
L	696	Inductor	CTF1379
L	697	Inductor	CTF1379
L	698	Inductor	CTF1379
L	699	Inductor	CTF1379
L	701	Inductor	CTF1379
L	702	Inductor	CTF1379
L	703	Inductor	CTF1379
L	704	Inductor	CTF1379
L	705	Inductor	CTF1379
L	706	Inductor	CTF1379
L	707	Inductor	CTF1379
L	708	Inductor	CTF1379
L	709	Inductor	CTF1379
L	710	Inductor	CTF1379
L	711	Inductor	CTF1421
L	801	Inductor	LCTA2R2J3225
L	802	Inductor	LCTA2R2J3225
L	803	Inductor	LCTA2R2J3225
L	804	Inductor	LCTB2R2K3216
L	805	Inductor	LCTB2R2K3216
L	806	Inductor	CTF1402
L	807	Inductor	CTF1402
L	902	Inductor	LCTA220J3225
L	921	Choke Coil 2mH	CTH1074
L	922	Choke Coil 100µH	CTH1157
L	923	Transformer	CTX1053
L	1001	Inductor	LCTB1R0K2125
L	1002	Inductor	LCTA2R2J3225
L	1003	Inductor	LCTA2R2J3225
L	1004	Inductor	LCTA2R2J3225
L	1005	Inductor	LCTB2R2K2125

=====Circuit Symbol and No.		===Part Name	Part No.
L	1006	Inductor	LCTB2R2K3216
L	1801	Inductor	LCTB2R2K2125
L	1802	Inductor	LCTB2R2K3216
L	1803	Inductor	LCTB2R2K3216
L	1805	Inductor	LCTB101K2125
L	1806	Inductor	LCTB2R2K3216
L	1807	Inductor	LCTB2R2K3216
L	1808	Inductor	LCTB2R2K3216
L	1809	Inductor	LCTB2R2K2125
L	1810	Inductor	LCTB2R2K2125
L	1811	Inductor	LCTB2R2K2125
L	2801	Inductor	LCTA6R8J2520
L	2802	Inductor	CTF1379
L	2805	Inductor	LCTB101K2125
L	2806	Inductor	LCTB2R2K3216
L	2807	Inductor	LCTB2R2K2125
L	3801	Inductor	LCTB2R2K2125
L	3802	Inductor	CTF1402
L	3803	Inductor	CTF1402
L	3804	Inductor	CTF1402
L	3805	Inductor	CTF1402
L	3808	Inductor	CTF1379
L	4001	Inductor	LCTB2R2K2125
L	4002	Inductor	LCTB2R2K2125
L	4003	Inductor	LCTB2R2K2125
L	4004	Inductor	LCTB2R2K2125
L	4801	Inductor	CTF1306
L	4802	Inductor	CTF1306
L	4803	Inductor	CTF1306
L	4804	Inductor	CTF1306
L	4805	Inductor	LCTB2R2K2125
L	4806	Inductor	CTF1379
TC	1001	Trimmer	CCL1048
TC	2801	Trimmer	CCG1039
X	501	Radiator 38.000kHz	CSS1372
X	502	Crystal Resonator 7.2MHz	CSS1030
X	601	Radiator 6.290MHz	CSS1451
X	602	Radiator 6.290MHz	CSS1451
X	801	Crystal Resonator 3.579545MHz	CSS1465
X	802	Crystal Resonator 4.433619MHz	CSS1460
S	601	Switch(RESET)	CSG1046
S	1001	Switch(MODE)	CSH1053
VR	501	Semi-fixed 47kΩ(B)	CCP1233
VR	502	Semi-fixed 33kΩ(B)	CCP1232
VR	801	Semi-fixed 100kΩ(B)	CCP1235
FU	502	Micro-Fuse 2A	CEK1190
FU	701	Micro-Fuse 2A	CEK1190
FU	801	Micro-Fuse 2A	CEK1190
FU	803	Micro-Fuse 2A	CEK1190
FU	804	Micro-Fuse 2A	CEK1190
FU	805	Micro-Fuse 2A	CEK1190
FU	921	Micro-Fuse 1A	CEK1187
FU	922	Micro-Fuse 500mA	CEK1185
FU	3801	Micro-Fuse 2A	CEK1190
FU	3802	Micro-Fuse 2A	CEK1190
FU	4801	Micro-Fuse 2A	CEK1190
FU	4802	Micro-Fuse 2A	CEK1190
EF	901	Filter	CCG1051
EF	3801	Filter	CCG1067
EF	3802	Filter	CCG1067
FE	1001	TV Front End	CWB1086

RESISTORS

=====Circuit Symbol and No.		===Part Name	Part No.
R	120		RS1/16S104J
R	121		RS1/16S473J
R	122		RS1/16S113J
R	123		RS1/16S113J
R	124		RS1/16S102J
R	125		RS1/16S512J
R	126		RS1/16S512J
R	420		RS1/16S473J
R	421		RS1/16S473J
R	423		RS1/16S472J
R	425		RS1/16S331J
R	426		RS1/16S474J
R	427		RS1/16S103J
R	428		RS1/16S474J
R	429		RN1/10SE1303D
R	430		RS1/16S103J
R	431		RS1/16S102J
R	433		RS1/16S102J
R	434		RS1/16S102J
R	435		RS1/10S222J
R	436		RS1/10S822J
R	437		RS1/16S473J
R	438		RS1/16S682J
R	439		RS1/16S103J
R	440		RS1/16S102J
R	441		RS1/16S104J
R	442		RS1/16S683J
R	443		RS1/16S393J
R	452		RS1/16S473J
R	453		RS1/16S473J
R	454		RS1/16S102J
R	455		RS1/16S821J
R	458		RS1/16S222J
R	459		RS1/16S912J
R	501		RS1/10S471J
R	502		RS1/10S471J
R	503		RS1/16S472J
R	504		RS1/16S472J
R	505		RS1/16S361J
R	506		RS1/16S361J
R	507		RS1/16S223J
R	508		RS1/16S223J
R	509		RS1/16S681J
R	510		RS1/16S681J
R	511		RS1/16S0R0J
R	512		RS1/16S0R0J
R	513		RS1/16S681J
R	514		RS1/16S362J
R	515		RS1/16S823J
R	516		RS1/16S513J
R	517		RS1/16S392J
R	518		RS1/16S102J
R	519		RS1/16S392J
R	520		RS1/16S102J
R	521		RS1/16S392J
R	522		RS1/16S103J
R	523		RS1/16S103J
R	524		RS1/16S103J
R	525		RS1/16S513J
R	526		RS1/16S101J
R	527		RS1/16S104J
R	528		RS1/16S104J
R	529		RS1/16S221J
R	530		RS1/16S123J
R	531		RS1/16S683J

=====Circuit Symbol and No.		===Part Name	Part No.
R	532		RS1/16S472J
R	533		RS1/16S102J
R	534		RS1/16S102J
R	535		RS1/16S102J
R	536		RS1/16S223J
R	537		RS1/16S362J
R	538		RS1/16S681J
R	539		RS1/16S242J
R	540		RS1/16S822J
R	541		RS1/16S103J
R	542		RS1/16S103J
R	543		RS1/16S101J
R	546		RS1/16S332J
R	547		RS1/16S334J
R	548		RS1/16S560J
R	549		RS1/16S222J
R	550		RS1/16S104J
R	551		RS1/16S244J
R	552		RS1/16S154J
R	553		RS1/16S152J
R	554		RS1/16S331J
R	555		RS1/8S470J
R	556		RS1/16S103J
R	601		RS1/16S102J
R	602		RS1/16S102J
R	603		RS1/16S102J
R	604		RS1/16S102J
R	605		RS1/16S102J
R	607		RS1/16S102J
R	610		RS1/16S681J
R	611		RS1/16S681J
R	612		RS1/16S473J
R	613		RS1/16S473J
R	614		RS1/16S102J
R	616		RS1/16S102J
R	617		RS1/16S473J
R	618		RS1/10S244J
R	619		RS1/16S473J
R	620		RS1/16S102J
R	621		RS1/16S102J
R	622	(GEX-P7000TVP/ES)	RS1/16S333J
R	623	(GEX-P7000TVP/EW)	RS1/16S473J
R	623	(GEX-P7000TVP/ES)	RS1/16S223J
R	624		RS1/10S473J
R	627		RS1/10S223J
R	628		RS1/10S472J
R	631		RS1/16S473J
R	632		RS1/16S102J
R	633		RS1/16S102J
R	634		RS1/16S102J
R	635		RS1/16S102J
R	636		RS1/16S473J
R	637		RS1/16S0R0J
R	638		RS1/16S0R0J
R	639		RS1/16S0R0J
R	646		RS1/16S102J
R	647		RS1/16S102J
R	648		RS1/16S102J
R	649		RS1/16S102J
R	651		RS1/10S103J
R	652		RS1/10S473J
R	653		RS1/10S472J
R	654		RS1/10S102J
R	656		RS1/10S103J
R	657		RS1/10S223J
R	658		RS1/10S103J
R	659		RS1/16S473J
R	660		RS1/10S223J
R	661		RS1/10S473J
R	662		RS1/16S473J

=====Circuit Symbol and No.		===Part Name	Part No.
R	663		RS1/16S473J
R	664		RS1/16S103J
R	665		RS1/16S562J
R	666		RS1/16S332J
R	667		RS1/10S182J
R	668		RS1/10S472J
R	669		RS1/10S223J
R	670		RS1/10S224J
R	671		RS1/10S224J
R	672		RS1/10S473J
R	673		RS1/10S472J
R	674		RS1/16S101J
R	675		RS1/16S101J
R	676		RS1/10S473J
R	677		RS1/10S473J
R	678		RS1/10S102J
R	679		RS1/10S102J
R	680		RS1/10S103J
R	681		RS1/16S222J
R	682		RS1/16S101J
R	683		RS1/16S101J
R	684		RS1/10S620J
R	685		RS1/10S473J
R	686		RS1/10S473J
R	687		RS1/10S102J
R	688		RS1/10S102J
R	689		RS1/10S103J
R	690		RS1/10S473J
R	691		RS1/10S473J
R	692		RS1/10S103J
R	693		RS1/10S103J
R	694		RS1/10S473J
R	695		RS1/10S223J
R	696		RS1/16S473J
R	697		RS1/10S473J
R	698		RS1/10S473J
R	699		RS1/10S473J
R	701		RS1/16S472J
R	702		RS1/10S472J
R	703		RS1/10S472J
R	704		RS1/10S473J
R	705		RS1/10S223J
R	706		RS1/10S153J
R	707		RS1/10S103J
R	708		RS1/10S103J
R	721		RS1/10S102J
R	722		RS1/10S102J
R	730		RS1/10S473J
R	731		RS1/16S473J
R	801		RS1/16S0R0J
R	802		RN1/16SE1002D
R	805		RS1/16S102J
R	806		RS1/16S222J
R	807		RS1/16S123J
R	808		RS1/16S222J
R	809		RS1/16S222J
R	810		RS1/16S101J
R	811		RS1/16S101J
R	812		RS1/10S103J
R	813		RS1/10S471J
R	814		RS1/10S471J
R	815		RS1/10S471J
R	816		RS1/10S471J
R	817		RS1/16S471J
R	818		RS1/16S102J
R	819		RS1/16S102J
R	820		RS1/16S0R0J
R	822		RS1/16S683J
R	823		RS1/16S473J
R	824		RS1/16S750J

=====Circuit Symbol and No.		===Part Name	Part No.
R	825		RS1/16S750J
R	827		RS1/16S102J
R	828		RS1/16S102J
R	829		RS1/16S471J
R	830		RS1/16S471J
R	831		RS1/16S471J
R	832		RS1/16S750J
R	833		RS1/16S750J
R	834		RS1/10S101J
R	835		RS1/16S101J
R	836		RS1/16S472J
R	837		RS1/16S472J
R	838		RS1/16S101J
R	839		RS1/16S101J
R	840		RS1/16S101J
R	841		RS1/16S103J
R	842		RS1/16S103J
R	843		RS1/16S102J
R	844		RS1/16S683J
R	845		RS1/16S473J
R	901		RS1/10S272J
R	902		RS1/10S822J
R	921		RS1/10S472J
R	922		RS1/10S472J
R	923		RS1/10S472J
R	924		RS1/4S271J
R	925		RS1/4S271J
R	926		RS1/10S472J
R	927		RS1/10S472J
R	928		RS1/10S103J
R	929		RS1/10S103J
R	930		RS1/10S102J
R	931		RS1/10S102J
R	932		RS1/10S472J
R	933		RS1/10S103J
R	934		RS1/10S103J
R	935		RS1/8S561J
R	936		RS1/10S103J
R	937		RS1/10S103J
R	938		RS1/8S152J
R	939		RS1/10S561J
R	942		RS1/10S103J
R	943		RS1/10S103J
R	944		RS1/10S102J
R	945		RS1/10S100J
R	946		RS1/10S103J
R	947		RS1/10S103J
R	948		RS1/4S152J
R	949		RS1/10S102J
R	950		RS1/10S223J
R	951		RS1/10S472J
R	952		RS1/10S560J
R	953		RS1/10S181J
R	954		RS1/16S104J
R	1001		RS1/16S102J
R	1002		RS1/16S102J
R	1003		RS1/16S102J
R	1004		RS1/16S102J
R	1005		RS1/10S102J
R	1006		RS1/10S102J
R	1007		RS1/10S101J
R	1008		RS1/10S471J
R	1010		RS1/10S103J
R	1011		RS1/10S103J
R	1012		RS1/10S103J
R	1013		RS1/10S103J
R	1014		RS1/10S102J
R	1015		RS1/10S102J
R	1016		RS1/10S102J
R	1017		RS1/10S102J

=====Circuit Symbol and No.		===Part Name	Part No.
R	1018		RS1/16S103J
R	1019		RS1/16S391J
R	1020		RS1/16S105J
R	1022		RS1/16S223J
R	1023		RS1/16S393J
R	1024		RN1/16SE1202D
R	1025		RS1/10S151J
R	1026		RS1/10S473J
R	1027		RS1/10S223J
R	1028		RS1/10S0R0J
R	1029		RS1/10S0R0J
R	1038		RS1/16S0R0J
R	1039		RS1/16S0R0J
R	1801		RS1/10S102J
R	1802		RS1/16S102J
R	1803		RS1/10S102J
R	1804		RS1/16S331J
R	1805		RS1/16S102J
R	1806		RS1/16S331J
R	1807		RS1/16S102J
R	1808		RS1/16S331J
R	1809		RS1/16S102J
R	1811		RS1/10S0R0J
R	1812		RS1/10S332J
R	1815		RS1/10S681J
R	1816	(RN1/10SE1002D)	GGC1320
R	1817	(RN1/10SE1002D)	GGC1320
R	1818		RS1/16S750J
R	1819		RS1/16S750J
R	1820		RS1/16S750J
R	1821		RS1/16S750J
R	1822		RS1/16S101J
R	1823		RS1/16S101J
R	1824		RS1/16S101J
R	2801		RS1/16S102J
R	2802		RS1/16S102J
R	2803		RS1/16S102J
R	2805		RS1/16S472J
R	2806		RS1/16S751J
R	2807		RS1/16S472J
R	2808		RS1/16S751J
R	2809		RS1/16S472J
R	2810		RS1/16S751J
R	2811		RS1/16S681J
R	2812		RS1/16S681J
R	2820		RS1/10S102J
R	2821		RS1/16S153J
R	2822		RS1/16S102J
R	2830		RS1/10S681J
R	2831	(RN1/10SE1002D)	GGC1320
R	2832		RS1/16S681J
R	2833	(RN1/10SE1002D)	GGC1320
R	3801		RS1/10S0R0J
R	3805		RS1/16S0R0J
R	3806		RS1/10S473J
R	3807		RS1/16S223J
R	3812		RS1/16S473J
R	3815		RS1/16S0R0J
R	3816		RS1/16S223J
R	3818		RS1/16S223J
R	3819		RS1/16S471J
R	3820		RS1/16S103J
R	3822		RS1/16S471J
R	3825		RS1/16S0R0J
R	3826		RS1/16S0R0J
R	3829		RS1/16S750J
R	3830		RS1/16S750J
R	3831		RS1/16S750J
R	3832		RS1/16S750J
R	3834		RS1/16S471J

=====Circuit Symbol and No.	===Part Name	Part No.
R 3835		RS1/16S471J
R 3836		RS1/16S223J
R 3838		RS1/16S0R0J
R 4001		RS1/16S272J
R 4002		RS1/16S272J
R 4003		RS1/16S272J
R 4004		RS1/16S272J
R 4005		RS1/16S222J
R 4006		RS1/16S222J
R 4007		RS1/16S222J
R 4008		RS1/16S222J
R 4009		RS1/16S102J
R 4010		RS1/16S102J
R 4011		RS1/16S102J
R 4012		RS1/16S102J
R 4013		RS1/16S220J
R 4014		RS1/16S220J
R 4015		RS1/16S104J
R 4016		RS1/16S104J
R 4017		RS1/16S104J
R 4018		RS1/16S104J
R 4019		RS1/16S104J
R 4020		RS1/16S104J
R 4021		RS1/16S102J
R 4022		RS1/16S102J
R 4023		RS1/16S222J
R 4024		RS1/16S222J
R 4025		RS1/16S102J
R 4026		RS1/16S102J
R 4027		RS1/16S222J
R 4028		RS1/16S222J
R 4029		RS1/16S821J
R 4030		RS1/16S821J
R 4031		RS1/10S223J
R 4032		RS1/10S223J
R 4033		RS1/16S102J
R 4034		RS1/16S102J
R 4035		RS1/16S104J
R 4036		RS1/16S104J
R 4037		RS1/16S104J
R 4038		RS1/16S104J
R 4039		RS1/16S104J
R 4040		RS1/16S104J
R 4041		RS1/16S102J
R 4042		RS1/16S102J
R 4043		RS1/16S222J
R 4044		RS1/16S222J
R 4045		RS1/16S102J
R 4046		RS1/16S102J
R 4047		RS1/16S222J
R 4048		RS1/16S222J
R 4049		RS1/16S821J
R 4050		RS1/16S821J
R 4051		RS1/16S223J
R 4052		RS1/16S223J
R 4053		RS1/10S103J
R 4054		RS1/10S103J
R 4055		RS1/16S102J
R 4056		RS1/16S102J
R 4057		RS1/16S222J
R 4058		RS1/16S222J
R 4059		RS1/16S102J
R 4060		RS1/16S102J
R 4061		RS1/16S222J
R 4062		RS1/16S222J
R 4201		RS1/10S102J
R 4202		RS1/10S102J
R 4203		RS1/10S223J
R 4204		RS1/10S223J
R 4205		RS1/10S102J

=====Circuit Symbol and No.	===Part Name	Part No.
R 4206		RS1/10S102J
R 4301		RS1/10S104J
R 4302		RS1/10S104J
R 4303		RS1/10S104J
R 4304		RS1/10S104J
R 4309		RS1/16S821J
R 4310		RS1/10S821J
R 4311		RS1/10S223J
R 4312		RS1/10S223J
R 4313		RS1/10S104J
R 4314		RS1/10S102J
R 4315		RS1/10S473J
R 4316		RS1/16S223J
R 4317		RS1/16S223J
R 4801		RS1/16S0R0J
R 4802		RS1/16S0R0J
R 4804		RS1/16S0R0J
R 4805		RS1/16S471J
R 4806		RS1/16S473J
R 4808		RS1/16S0R0J
R 4811		RS1/16S471J
R 4812		RS1/16S471J
R 4813		RS1/16S471J
R 4814		RS1/16S471J

CAPACITORS

C 118		CKSYB106K6R3
C 119		CKSYB106K6R3
C 121		CKSRYB153K25
C 122		CKSRYB153K25
C 414		CEV100M16
C 415		CKSRYB103K25
C 416		CKSRYB223K25
C 417		CEJA470M10
C 418		CKSRYB222K50
C 419		CKSQYB105K16
C 420		CKSQYB105K16
C 421		CKSRYB102K50
C 422		CCSRCH101J50
C 423		CKSRYB104K16
C 424		CKSRYB103K25
C 425		CEV220M10
C 426		CKSRYB102K50
C 427		CKSRYB682K25
C 428		CKSQYB272K50
C 429		CKSQYB105K16
C 430		CKSRYB103K25
C 431		CKSYB106K6R3
C 437		CKSYB106K6R3
C 438		CKSRYB104K16
C 439		CKSRYB104K16
C 440		CKSRYB103K25
C 441		CKSRYB223K25
C 451		CKSRYB332K50
C 452		CKSYB106K6R3
C 456		CKSYB106K6R3
C 501		CKSRYB102K50
C 502		CKSRYB102K50
C 505	(GEX-P7000TVP/EW)	CKSRYB272K50
C 505	(GEX-P7000TVP/ES)	CKSRYB392K50
C 506	(GEX-P7000TVP/EW)	CKSRYB272K50
C 506	(GEX-P7000TVP/ES)	CKSRYB392K50
C 507		CKSRYB102K50
C 508		CKSRYB102K50
C 509		CKSRYB103K25
C 510		CKSQYB105K16
C 512		CKSYB106K6R3
C 513		CKSQYB105K16
C 514		CKSYB106K6R3
C 515		CKSRYB103K25
C 516		CCSRCH120J50

=====Circuit Symbol and No.		===Part Name	Part No.
C	517		CKSRYB103K25
C	518		CCSRCH101J50
C	519		CKSQYB474K16
C	520		CCSRCH160J50
C	521		CKSYB106K6R3
C	522		CEV220M10
C	523		CKSQYB474K16
C	524		CKSYB106K6R3
C	525		CKSRYB104K16
C	526		CKSQYB105K16
C	527		CCSRCH271J50
C	528		CCSQCH162J50
C	529		CKSQYB105K16
C	530		CKSRYB104K16
C	531		CCSRCH270J50
C	532		CCSRCH270J50
C	533		CKSRYB103K25
C	534		CEV101M10
C	535	33µF/10V	CCH1286
C	536		CKSRYB473K16
C	537		CEV470M6R3
C	538		CKSRYB104K16
C	539		CCSRCH180J50
C	540		CKSRYB103K25
C	541		CCSQCH1R0C50
C	542		CCSQCH100D50
C	543		CCSRCH330J50
C	544		CCSRCH180J50
C	545		CKSRYB104K16
C	546		CCSQCH1R0C50
C	547		CKSRYB103K25
C	548		CCSQCH3R0C50
C	549		CKSRYB103K25
C	550		CEJA220M16
C	551		CKSRYB473K16
C	552		CKSRYB103K25
C	604		CKSRYB102K50
C	605		CKSQYB105K16
C	606		CKSQYB473K16
C	607		CKSQYB473K16
C	609		CKSQYB102K50
C	610		CKSQYB473K16
C	611		CKSQYB473K16
C	612		CKSQYB103K25
C	651		CKSQYB103K25
C	652		CEJA100M16
C	653		CKSRYB102K50
C	654		CKSQYB105K16
C	655		CKSQYB104K16
C	656		CKSQYB104K16
C	657		CKSQYB104K16
C	801		CKSQYB105K16
C	802		CKSQYB105K16
C	803		CKSRYB104K16
C	804		CEJA100M16
C	805		CKSQYB105K16
C	806		CKSRYB472K50
C	807		CKSQYB105K16
C	808		CKSQYB105K16
C	809		CEJA470M10
C	810		CKSRYB104K16
C	811		CKSQYB105K16
C	812		CKSYB475K10
C	813		CKSQYB105K16
C	814		CKSQYB104K16
C	815		CCSQSL221J50
C	816		CKSQYB224K16
C	817		CCSQCH180J50
C	818		CCSQCH180J50
C	819		CEJANP100M10

=====Circuit Symbol and No.		===Part Name	Part No.
C	820		CKSRYB103K25
C	823		CKSYB106K6R3
C	825		CKSRYB103K25
C	826		CKSYB106K6R3
C	828	470µF/6.3V	CCH1182
C	831	470µF/6.3V	CCH1182
C	832		CKSYB106K6R3
C	833		CKSRYB223K25
C	834		CKSQYB105K10
C	835		CEVNP100M10
C	836		CEVNP100M10
C	837		CKSRYB104K16
C	838		CKSRYB104K16
C	839		CKSRYB104K16
C	840		CKSRYB104K16
C	841		CKSRYB104K16
C	842		CKSRYB104K16
C	843		CKSRYB104K16
C	844		CKSRYB104K16
C	845		CKSRYB104K16
C	846		CKSRYB104K16
C	847		CKSRYB104K16
C	848		CKSRYB104K16
C	849		CKSYB106K6R3
C	901	4700µF/16V	CCH1188
C	902		CKSQYB104K16
C	903	1000µF/16V	CCH1185
C	904		CKSQYB103K25
C	905		CEJA220M16
C	906		CKSQYB103K25
C	907		CEJA220M16
C	921		CEJA220M10
C	922		CEAS471M25
C	923		CEAS101M25
C	924		CKSQYB103K25
C	925		CKSQYB103K25
C	926		CEJA330M10
C	927		CKSQYB103K25
C	928		CEJA330M10
C	929		CKSQYB473K16
C	930		CKSQYB103K25
C	931		CKSQYB103K25
C	932		CEJA100M16
C	933		CKSQYB473K16
C	934		CEV330M10
C	935		CKSQYB473K16
C	936		CKSQYB473K16
C	937		CEV220M10
C	938		CKSQYB473K16
C	939		CEV330M10
C	940		CKSQYB103K25
C	941		CKSQYB103K50
C	942		CEJA4R7M35
C	943		CEJA4R7M35
C	944		CKSQYB103K50
C	945		CKSQYB104K50
C	946		CEJA101M16
C	947		CKSQYB103K25
C	948		CKSQYB104K16
C	949		CKSQYB103K25
C	950		CEAS221M10
C	951	470µF/10V	CCH1019
C	952		CKSQYB473K16
C	953	470µF/10V	CCH1019
C	954		CEJA1R0M50
C	955		CEJA220M10
C	956		CKSQYB104K16
C	957	470µF/10V	CCH1019
C	958		CEJA101M10
C	1001		CKSQYB103K50

=====Circuit Symbol and No.		===Part Name	Part No.
C	1002		CEAS220M50
C	1003		CKSQYB473K16
C	1004	470µF/10V	CCH1019
C	1005	470µF/10V	CCH1019
C	1006		CKSQYB103K25
C	1009		CKSQYB103K25
C	1010	470µF/10V	CCH1019
C	1011		CKSQYB103K25
C	1013		CEJA100M16
C	1014		CKSQYB223K25
C	1015		CKSRYB153K25
C	1016		CKSRYB102K50
C	1017		CCSRTH180J50
C	1018		CKSRYB102K50
C	1019		CKSRYB102K50
C	1020		CKSRYB102K50
C	1021		CKSRYB102K50
C	1022		CKSQYB224K16
C	1023		CKSQYB152K50
C	1024		CKSQYB102K50
C	1025		CKSQYB102K50
C	1026		CKSQYB223K25
C	1027		CEJA470M6R3
C	1028		CKSQYB103K25
C	1029		CKSQYB103K25
C	1038		CKSQYB223K25
C	1041		CKSQYB333K25
C	1042		CKSQYB333K25
C	1043		CKSQYB333K25
C	1044		CKSQYB333K25
C	1801		CKSQYB104K16
C	1802		CKSQYB105K16
C	1803		CKSQYB105K16
C	1804		CKSQYB105K16
C	1805		CKSQYB105K16
C	1806		CKSQYB105K16
C	1807		CKSQYB105K16
C	1808		CKSQYB103K25
C	1809		CEJA100M16
C	1810		CKSQYB103K25
C	1811		CKSQYB105K16
C	1812		CKSQYB105K16
C	1813		CKSQYB105K16
C	1814		CKSQYB105K16
C	1815		CKSQYB105K16
C	1816		CKSQYB105K16
C	1817		CKSQYB103K25
C	1818		CKSYB106K6R3
C	1819		CKSRYB103K25
C	1821		CKSQYB105K16
C	1822		CKSQYB105K16
C	1823		CKSQYB105K16
C	1824		CCSQCH100J50
C	1825		CCSQSL471J50
C	1826		CCSQCH100J50
C	1827		CKSQYB104K16
C	1828		CKSYB106K6R3
C	1829		CKSQYB470K50
C	1830		CEV470M6R3
C	1831		CEV470M6R3
C	1832		CEV470M6R3
C	1833		CKSRYB103K25
C	1834		CEV100M16
C	1835		CKSRYB103K25
C	1836		CKSQYB105K16
C	1837		CKSRYB103K25
C	1838		CKSYB106K6R3
C	1839		CKSRYB103K25
C	1840	470µF/10V	CCH1019
C	1841		CKSYB106K6R3

=====Circuit Symbol and No.		===Part Name	Part No.
C	1842		CKSYB106K6R3
C	1843		CKSQYB103K25
C	1844		CKSQYB103K25
C	1845		CKSYB106K6R3
C	1846		CCSRCH221J50
C	1847		CCSRCH221J50
C	1848		CCSRCH221J50
C	2801		CKSQYB105K16
C	2802		CCSRUJ121J50
C	2803		CCSRUJ101J50
C	2806		CKSRYB103K25
C	2807		CASAQ150K16
C	2816		CCSQCH100J50
C	2817		CCSQSL471J50
C	2818		CCSQCH100J50
C	2819		CKSQYB104K16
C	2820		CKSYB106K6R3
C	2821		CKSYB106K6R3
C	2822		CKSRYB103K25
C	2823		CKSRYB103K25
C	2824		CKSYB106K6R3
C	2825		CKSRYB104K16
C	2830		CKSYB106K6R3
C	2831		CKSQYB183J50
C	3802		CKSRYB104K16
C	4001		CCSRSL471J50
C	4002		CCSRSL471J50
C	4003		CCSQSL471J50
C	4004		CCSRSL471J50
C	4005		CCSRSL471J50
C	4006		CCSRSL471J50
C	4007		CCSRSL471J50
C	4008		CCSRSL471J50
C	4009		CKSQYB105K16
C	4010		CKSQYB105K16
C	4011		CKSQYB105K16
C	4012		CKSQYB105K16
C	4013		CEJA220M16
C	4014		CEJA220M16
C	4015		CKSQYB105K16
C	4016		CKSQYB105K16
C	4017		CEV101M10
C	4018		CEJA101M10
C	4019		CKSQYB105K16
C	4020		CKSQYB105K16
C	4021		CKSQYB105K16
C	4022		CKSQYB105K16
C	4023		CKSQYB105K16
C	4024		CKSQYB105K16
C	4025		CCSRCH151J50
C	4026		CCSRCH151J50
C	4027		CCSRCH151J50
C	4028		CCSRCH151J50
C	4029		CKSQYB105K16
C	4030		CKSQYB105K16
C	4031		CKSQYB222K50
C	4032		CKSQYB222K50
C	4033		CEV101M10
C	4034		CKSYB106K6R3
C	4035		CEV101M10
C	4037		CKSQYB105K16
C	4038		CKSQYB105K16
C	4039		CKSQYB105K16
C	4040		CKSQYB105K16
C	4041		CKSQYB105K16
C	4042		CKSQYB105K16
C	4043		CCSRCH151J50
C	4044		CCSRCH151J50
C	4045		CCSRCH151J50
C	4046		CCSRCH151J50

=====Circuit Symbol and No.		===Part Name	Part No.
C	4047		CKSQYB105K16
C	4048		CKSQYB105K16
C	4049		CKSRYB222K50
C	4050		CKSRYB222K50
C	4051		CEJA101M10
C	4052		CEJA100M16
C	4053		CEJA101M10
C	4055		CCSRCH151J50
C	4056		CCSRCH151J50
C	4057		CCSRCH151J50
C	4058		CCSRCH151J50
C	4201		CEJA1R0M50
C	4202		CEJA1R0M50
C	4203		CEJA1R0M50
C	4204		CEJA1R0M50
C	4205		CEJANP100M10
C	4206		CEJANP100M10
C	4207		CEJA220M16
C	4208		CEJA100M16
C	4301		CEJA100M16
C	4302		CEJA100M16
C	4309		CEJA100M16
C	4310		CEJA100M16
C	4311		CKSQYB222K50
C	4312		CKSQYB222K50
C	4313		CEJA220M10
C	4314		CEJA220M10
C	4801		CKSRYB104K16

B Unit Number:CWX2200
Unit Name :Antenna Select Unit

MISCELLANEOUS

Q	501	Transistor	2SC1740S
D	501	Diode	1SS133
L	501	Ferri-Inductor	LAU4R7K
RY	501	Relay	CSR1014

RESISTORS

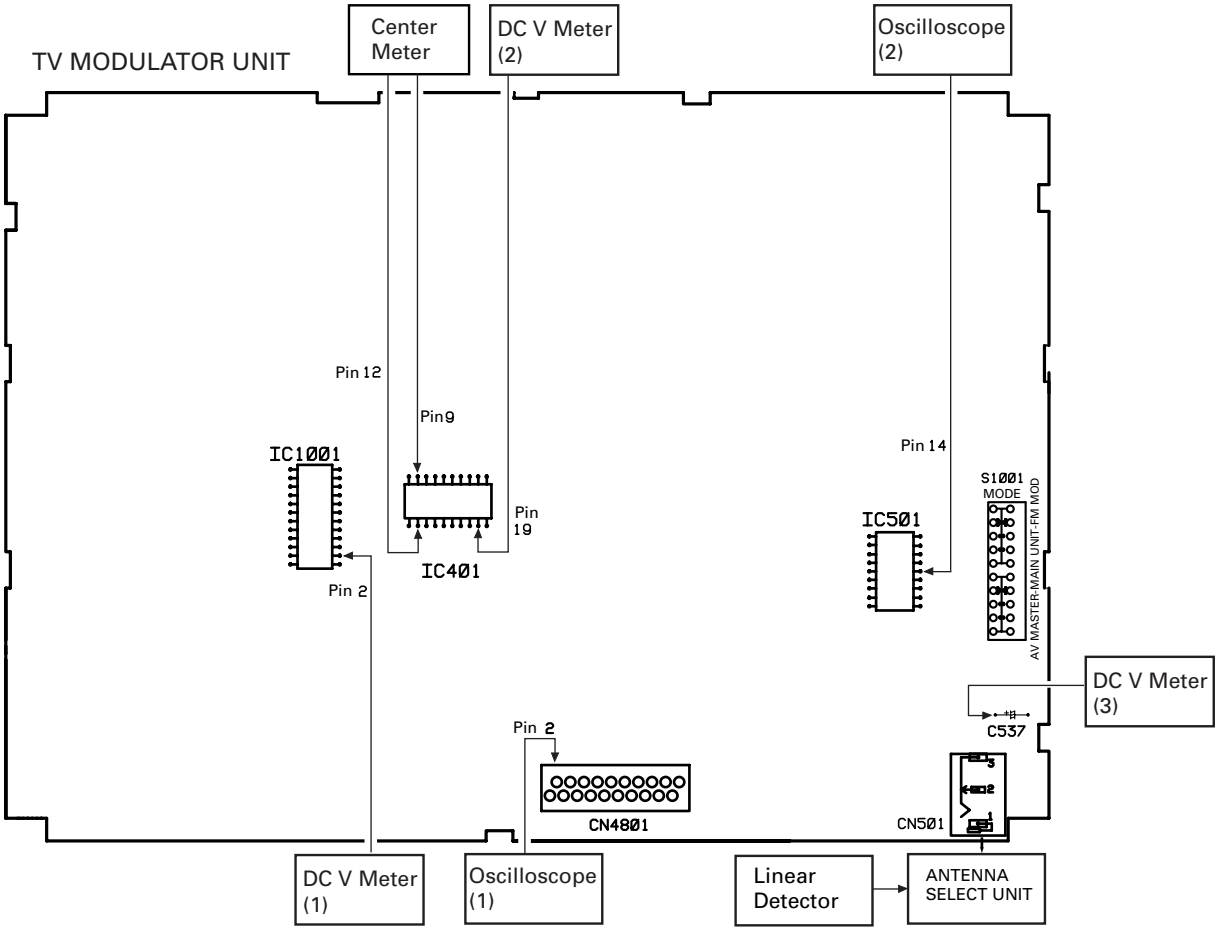
R	501	RD1/4PU683J
R	502	RD1/4PU103J

CAPACITORS

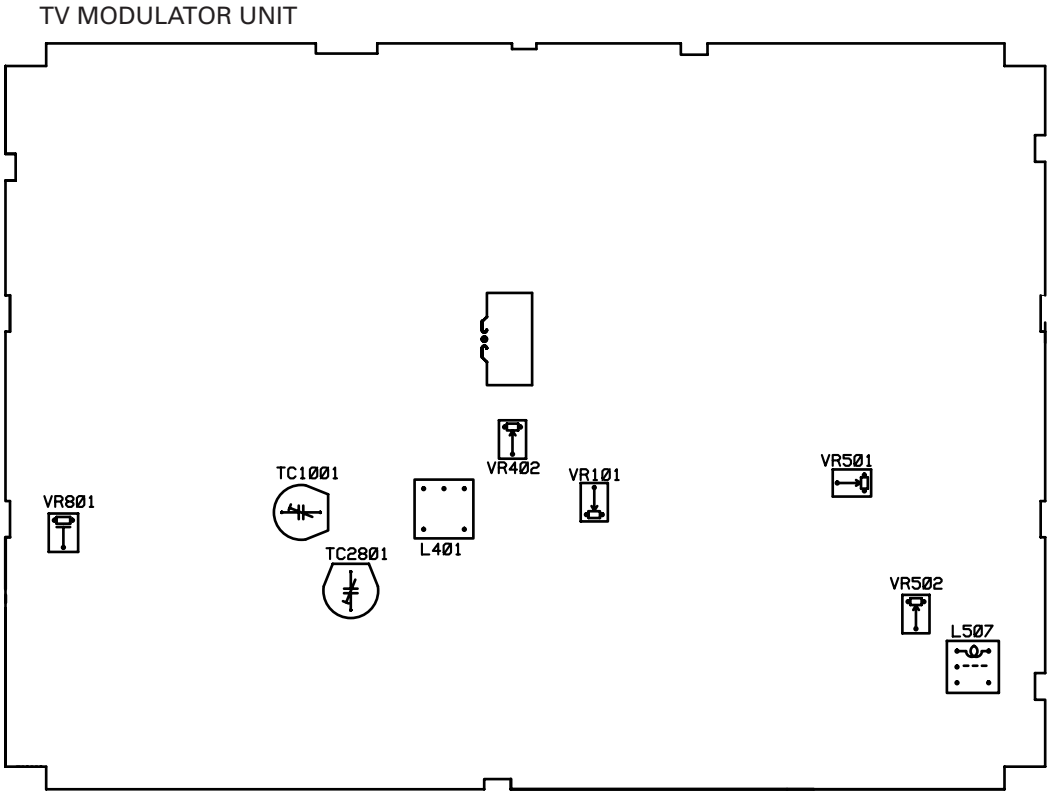
C	501	CKCYB102K50
C	502	CEAL101M10

6. ADJUSTMENT

● Test Point

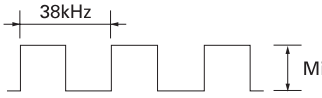


● Adjustment Point



Before adjustment, set the diversity to 1 so as to prevent the circuit from operating during input signals are weak (use "1" input for antenna input).
Use rear monitor or OSD output for the video monitor.

Procedure	Adjustment Item	Input signal	Adjustment Point	Adjustment method
1	Diversity adjustment	Receive TV signals.	TC1001	Monitor the voltage of pin 2 of IC1001 (PM0013AM) and adjust the DC voltage to 2.5V ± 0.1V.(DC V Meter(1)) Note: If this has not been adjusted properly, extreme diversity switching occurs even with good receiving conditions, causing voice interruption.
2	Center meter adjustment	Receive TV point B signals (US Band 10ch)	L401	Monitor the voltage between pins 9 and 12 of IC401 (LA1145M) and reduce the potential difference between both edges to zero. (Center Meter) Note: If this has not been adjusted properly, the voice becomes low too fast as input signals become weak. Even worse, sound may be strained or no sound output.
3	SD adjustment	Receive TV point B signals (US Band 10ch) RF level: 33 dBμ	VR402	Monitor the voltage of pin 19 of IC401 (LA1145M) and adjust the DC voltage to 2.5V ± 1.0V.(DC V Meter(2)) Note: If this has not been adjusted properly, seek may stop even without any signal input or may not stop even when turning input signals stronger.
4	RGB level adjustment	Input white 100% with burst signal 1Vp-p to VTR1.	VR801	Turn the TV on and enable VTR1 using the menu screen setting. Set the source to VTR1 and monitor the waveform of pin 2 of RGB monitor output CN4801. Adjust the video output of pin 2 as follows: When the RGB monitor or 75Ω is connected to CN4801: 0.7Vp-p ± 0.1V (Oscilloscope(1)) When nothing is connected to CN4801: 1.4Vp-p ± 0.2V (DSENS(Pin 12):Connect to GND) Note: If this has not been adjusted properly, the screen becomes too bright or dark.
5	OSD clock adjustment	Input white 100% with burst signal 1Vp-p to VTR1	TC2801	Before this adjustment, connect the RGB monitor (since return synchronous signals are required to be input from the monitor). Connect AVX-7000. Turn the TV on and enable VTR1 using the menu screen setting. Set the source to VTR1 and display the OSD menu screen. Adjust the screen so that the OSD display comes center. Note: If this has not been adjusted properly, the menu screen OSD display shifts.
6	FM modulator tuning voltage adjustment	Play a –∞ CD.	L507	Set the MODE switch (S1001) to the FM modulator mode. Connect a multi-CD and start-up the source with the CD. Set the modulator frequency to 89.1 MHz on the menu screen. Monitor the collector voltage (positive side of C537) of Q503 and adjust the DC voltage to 3.0V ± 0.1V.(DC V Meter(3)) Note: To use the menu screen, connect an RGB monitor. Note: If this has not been adjusted properly, RF is strained when the modulator frequency is low or high.

Procedure	Adjustment Item	Input signal	Adjustment Point	Adjustment method
7	FM modulator 38 kHz leakage adjustment	Play a –∞ CD.	VR501	Set the MODE switch (S1001) to the FM modulator mode. Connect a multi-CD and start-up the source with the CD. Set the modulator frequency to 89.1 MHz on the menu screen. Monitor pin 14 of IC501 (BA1404F) with an oscilloscope and adjust 38 kHz leakage to the minimum.  (Oscilloscope(2)) Note: To use the menu screen, connect an RGB monitor. Note: If this has not been adjusted properly, S/N deteriorates during FM reception.
8	FM modulator modulation level adjustment	Play a CD of 400 Hz, 0 dB (or 500 Hz or 1 kHz)	VR502	Set the MODE switch (S1001) to the FM modulator mode. Connect a multi-CD and start-up the source with the CD. Set the modulator frequency to 89.1 MHz and the modulation level to +3 on the menu screen. Connect the antenna select switch unit to the red mini-jack (CN501) of the antenna select unit output on the TV modulator unit. Monitor the output from the antenna select switch unit using a linear detector. Adjust the modulation level to 100 kHz. Note: If this has not been adjusted properly, sound becomes too loud or low during FM reception.

7. GENERAL INFORMATION

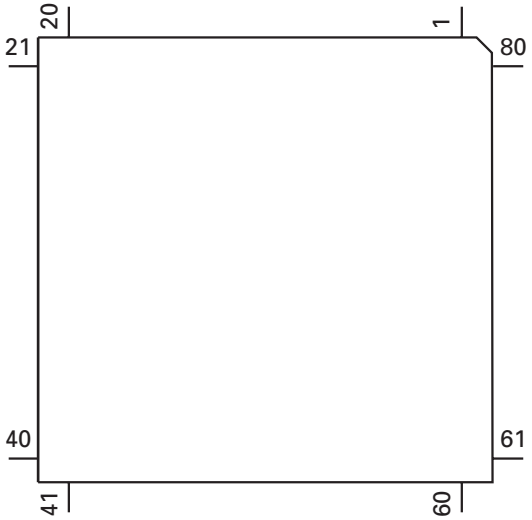
7.1 IC

● **Pin Functions (PE5039A)**

Pin No.	Pin Name	I/O	Format	Function and Operation
1-3	NC			Not used
4	AVSS			A/D GND
5	SNCOUT	O		Stereo noise control output(Not used)
6	HCCOUT	O		High cut level output(Not used)
7	AVREF1			A/D converter reference voltage
8	UARTRX	I		Modulator IC communication input
9	UARTTX	O		Modulator IC communication output
10,11	NC			Not used
12	TVPDO	O	C	TV tuner data output
13	TVPCK	O	C	TV tuner clock output
14	TVPCE	O	C	TV tuner chip enable output
15	NC			Not used
16	TESTDI	I		Test data input
17	TESTDO	O		Test data output
18	TESTCK	O		Test clock output
19	NC			Not used
20-23	$\overline{\text{ANT}}$1-4	O	C	Auto antenna control output
24	NC			Not used
25	NICAM	O	C	Audio selector output
26	NC			Not used
27	MAIN	O	C	Audio select(MAIN/$\overline{\text{SUB}}$ or $\overline{\text{DUAL}}$)(Not used)
28	$\overline{\text{SUB}}$	O	C	Audio select(DUAL/$\overline{\text{SUB}}$)(Not used)
29-32	NC			Not used
33	VSS			GND
34-36	NC			Not used
37	SYNCDET	I	N	Sync signal detect input
38	NC			Not used
39	TVLK1	I	N	PLL lock detect input
40	NC			Not used
41	$\overline{\text{ANTFIX}}$			Antenna 1 fix input
42	SEEK	O	C	Seek output(Not used)
43	$\overline{\text{PSAVE}}$	O	C	Power save output
44	NC			Not used
45	IPPW	O	C	Power supply control output for IP BUS interface IC
46	$\overline{\text{TVMUTE}}$	O	C	TV tuner mute output
47	TVSPOW	O	C	TV power output
48	TVOTHER	O	C	TV/Other
49	NC			Not used
50	TVPW	O	C	TV power supply output
51	$\overline{\text{ST}}$	I		FM stereo input
52-55	NC			Not used
56	IPTX	O	C	IP data output
57	IPRX	I		IP data input
58	NC			Not used
59	$\overline{\text{BILSEN}}$	I		Bilingual input
60	RESET	I		Reset Input
61,62	NC			Not used
63	$\overline{\text{DSENS}}$	I		Grille detach sense
64	SD	I		SD input
65	$\overline{\text{ASENS}}$	I		ACC power sense input
66	$\overline{\text{BSENS}}$	I		Back up power sense input
67	NC			Not used
68	VDD			Power supply
69	X2			Crystal oscillator connection pin

Pin No.	Pin Name	I/O	Format	Function and Operation
70	X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	XT2			Not used
73	TESTIN	I		Test program mode input
74	AVDD			Connect to VDD
75	AVREFO			Connect to VDD
76	SL	I		Signal level input
77	MODEL1	I		Mode switch select input
78	SIMUKE	I		Destination information input
79	AFS	I		AFS input
80	NC			Not used

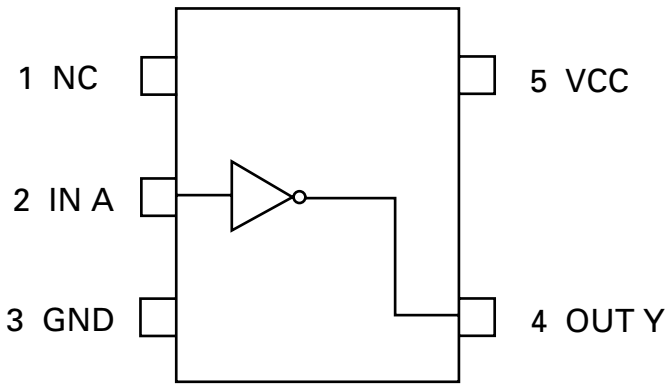
*PE5039A



Format	Meaning
C	C MOS
N	N channel open drain

IC's marked by* are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

TC7SH04F



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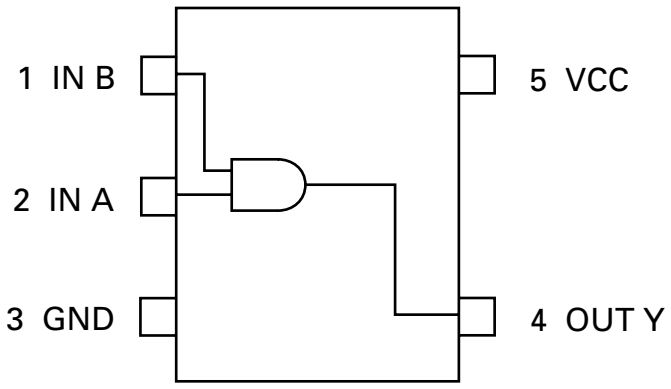
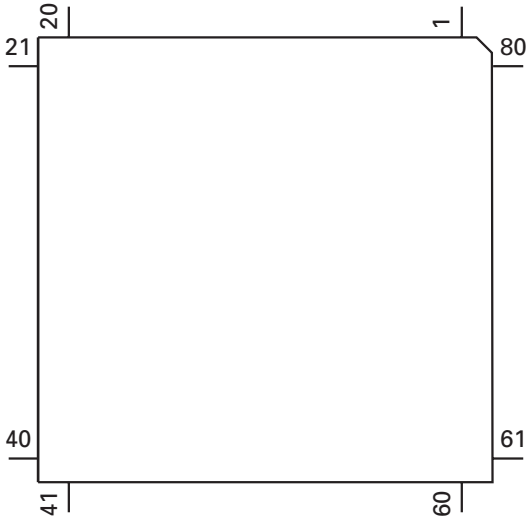


● **Pin Functions (PE5040A)**

Pin No.	Pin Name	I/O	Format	Function and Operation
1	TVPWIN	I		TV power on request input
2	TVMTIN	I		TV mute on request input
3	ASENBO	O	C	ASENBO output
4	AVSS	I		A/D GND
5	TPDO	O	C	FM transmitter PLL data output
6	TPCK	O	C	FM transmitter PLL clock output
7	AVREF1			(Connect to VDD)
8	UARTRX	I		Modulator IC communication input
9	UARTTX	O		Modulator IC communication output
10	TPCE	O	C	FM transmitter PLL chip enable output
11	NC			Not used
12	OSDDT	O	C	OSD data output
13	OSDCK	O	C	OSD clock output
14	OSDCS	O	C	OSD chip select output
15	NC			Not used
16	TESTDI	I		Test data input
17	TESTDO	O		Test data output
18	TESTCK	O		Test clock output
19	MOSYNC	O	C	Monitor sync select output(Not used)
20	BLOUT	O	C	OSD output
21	ASEL0	O	C	Audio select output
22	ASEL1	O	C	Audio select output
23	ASEL2	O	C	Audio select output
24	$\overline{\text{COM}}$RGB	O	C	Composite RGB select output
25	$\overline{\text{SWVDD}}$	O	C	SW5V power supply control output
26	RVSEL1	O	C	Rear monitor select output
28	$\overline{\text{RMMUTE}}$	O	C	Rear monitor mute
29	$\overline{\text{MUTE}}$	O	C	System mute output
30,31	VSELOUT1,2	O	C	VSEL output
32	SYSPW	O	C	System power control output
33	VSS			GND
34	VIDEOPW	O	C	Video power supply output
35	ILMPW	O	C	Illumination power supply control output(Not used)
36-40	NC			Not used
41	SDA	O	C	Bus data output
42	SCL	O	C	Bus clock output
43	$\overline{\text{PSAVE}}$	O	C	Power save output
44	NC			Not used
45	$\overline{\text{IPPW}}$	O	C	Power supply control output for IP BUS interface IC
46-49	NC			Not used
50	OUT514	O	C	Operation mode output 1
51	$\overline{\text{OUTMOD}}$	O	C	Operation mode output 2
52,53	NC			Not used
54	$\overline{\text{MMUTE}}$	O	C	Mute output for modulator
55	MODPW	O	C	Modulator power supply output
56	IPTX	O	C	IP data output
57	IPRX	I		IP data input
58,59	NC			Not used
60	RESET	I		Reset Input
61	$\overline{\text{REMIN}}$	I		Remote control data input
62	PBSENS	I		Parking sense input
63	$\overline{\text{DSENS}}$	I		Grille detach sense
64	$\overline{\text{NVSENS}}$	I		Navi ON sense input
65	$\overline{\text{ASENS}}$	I		ACC power sense input
66	$\overline{\text{BSENS}}$	I		Back up power sense input
67	$\overline{\text{ISENS}}$	I		Illumination sense input
68	VDD			Power supply
69	X2			Crystal oscillator connection pin

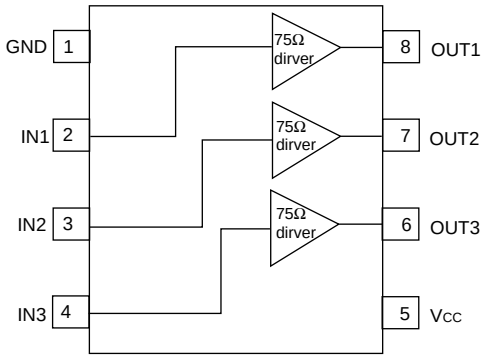
Pin No.	Pin Name	I/O	Format	Function and Operation
70	X1			Crystal oscillator connection pin
71	IC			Connect to VSS
72	XT2			Not used
73	TESTIN	I		Test program mode input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREFO	I		Connect to VDD
76	MODEL1	I		Mode switch select input
77	SIMUKE	I		Destination information input
78,79	NC			Not used
80	TVSELIN	I		TV/OTHER input

*PE5040A

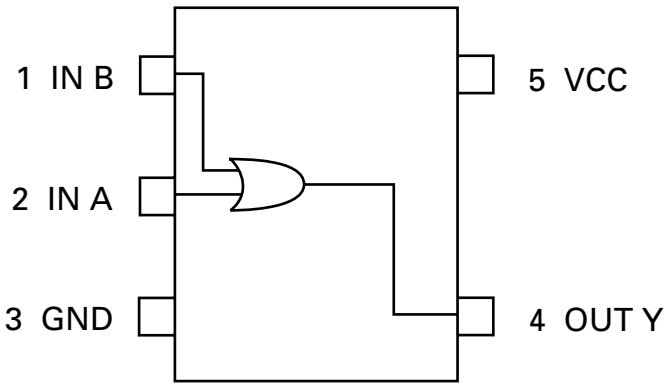


Format	Meaning
C	C MOS

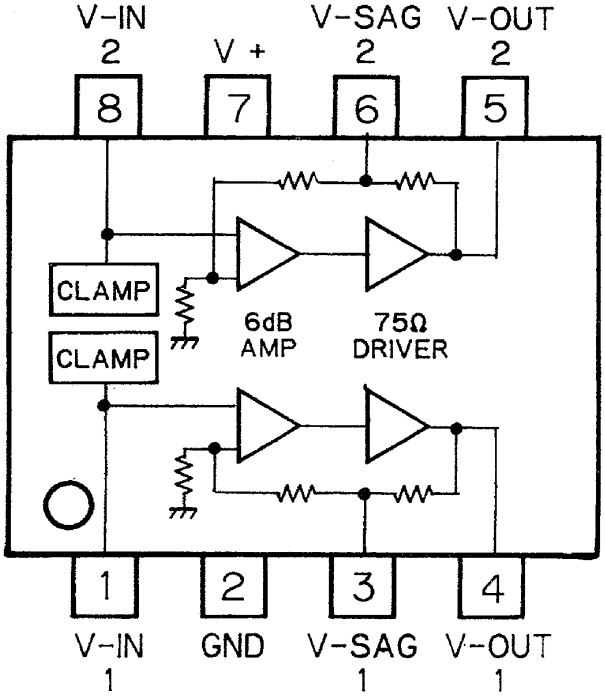
BA7623F



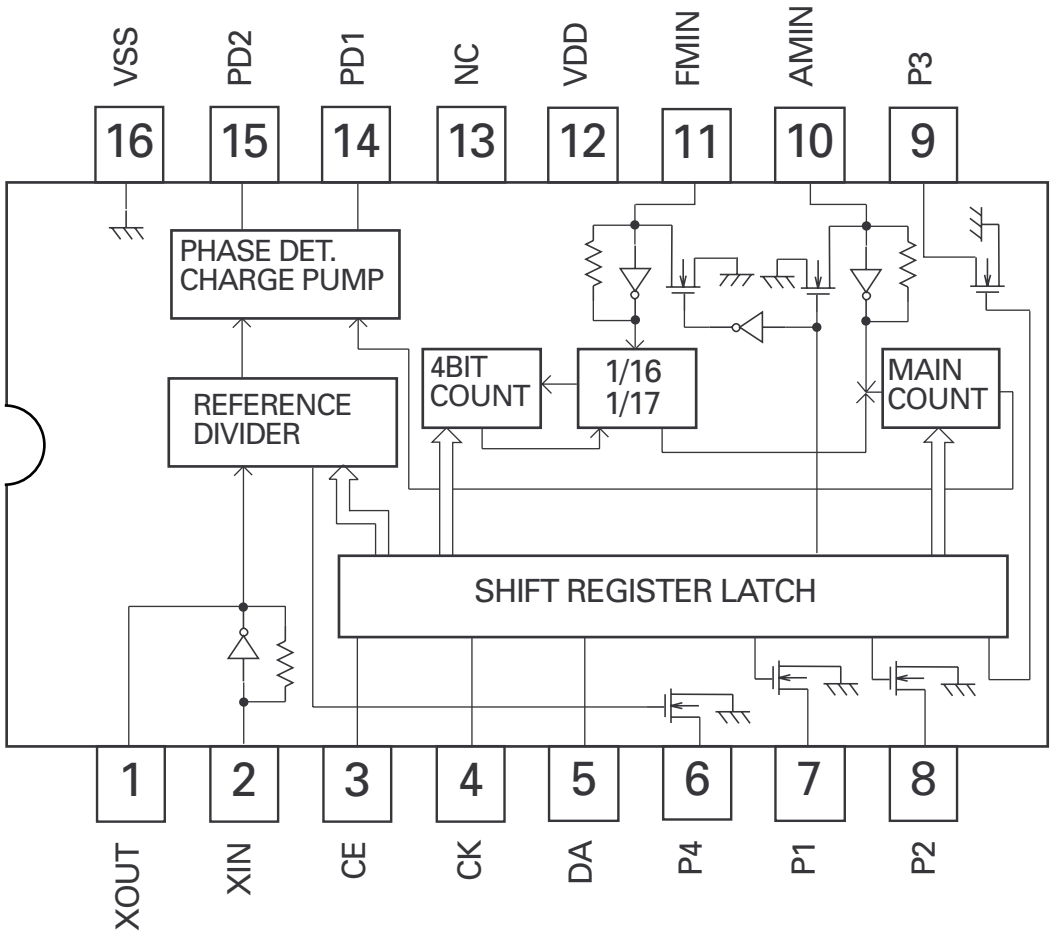
TC7SH32FU



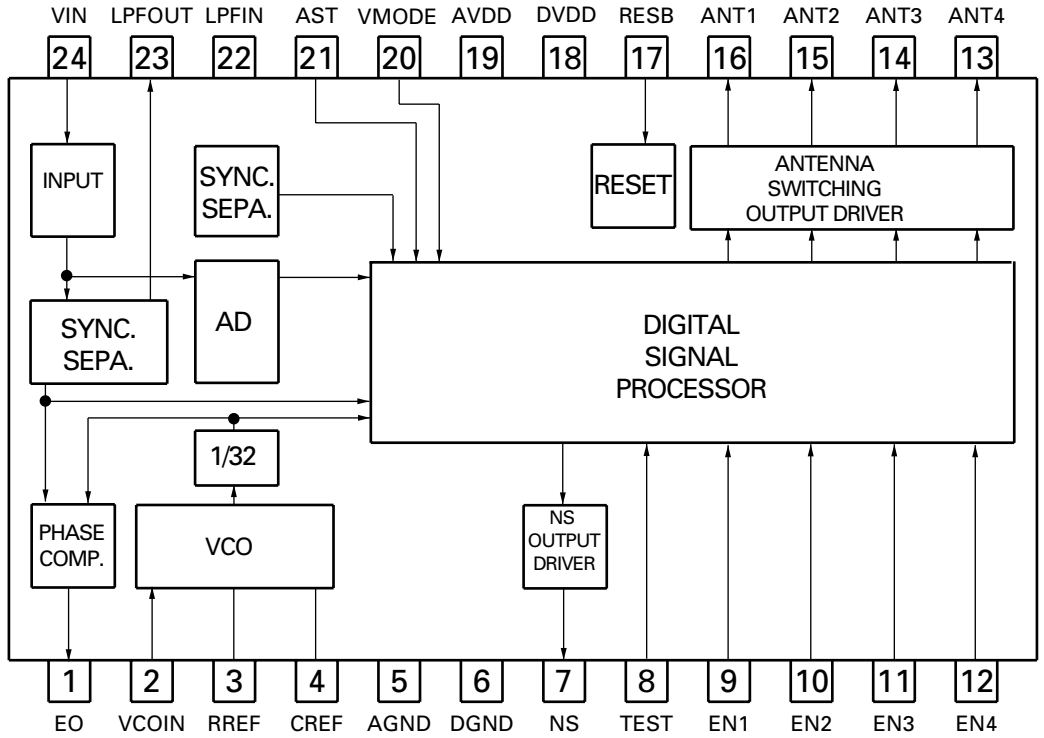
NJM2267V



BU2611AFS



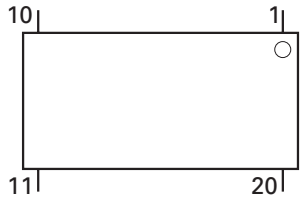
PM0013AM



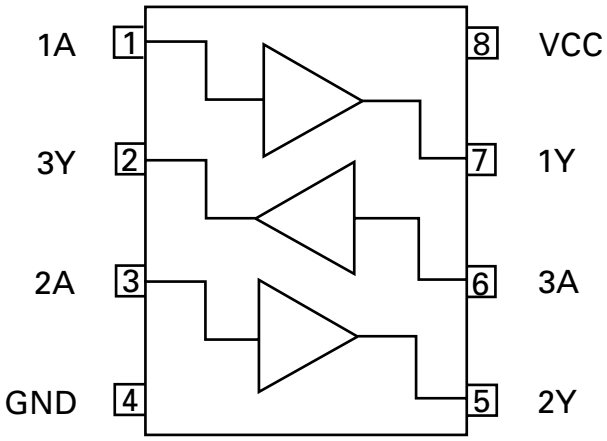
● **Pin Functions (PD5448B)**

Pin No.	Pin Name	I/O	Function and Operation
1	OSC1	I	Oscillator for display
2	OSC2	O	Oscillator for display
3	$\overline{CS}$	I	Chip select input
4	SCK	I	Serial clock input
5	SI	I	Serial data input
6	$\overline{AC}$	I	Auto clear input
7-10	P6-P9	O	Not used
11	VSS		GND
12	BLNK	O	Port output
13	R	O	R output
14	P2	O	Not used
15	G	O	G output
16	P4	O	Not used
17	B	O	B output
18	HOR	I	Horizontal sync signal input
19	VERT	I	Vertical sync signal input
20	VDD		Power supply

*PD5448B



TC7W34FU



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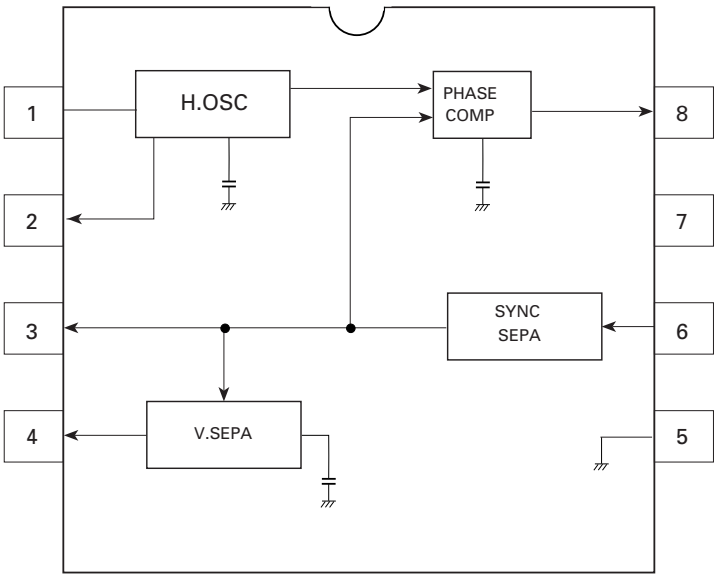
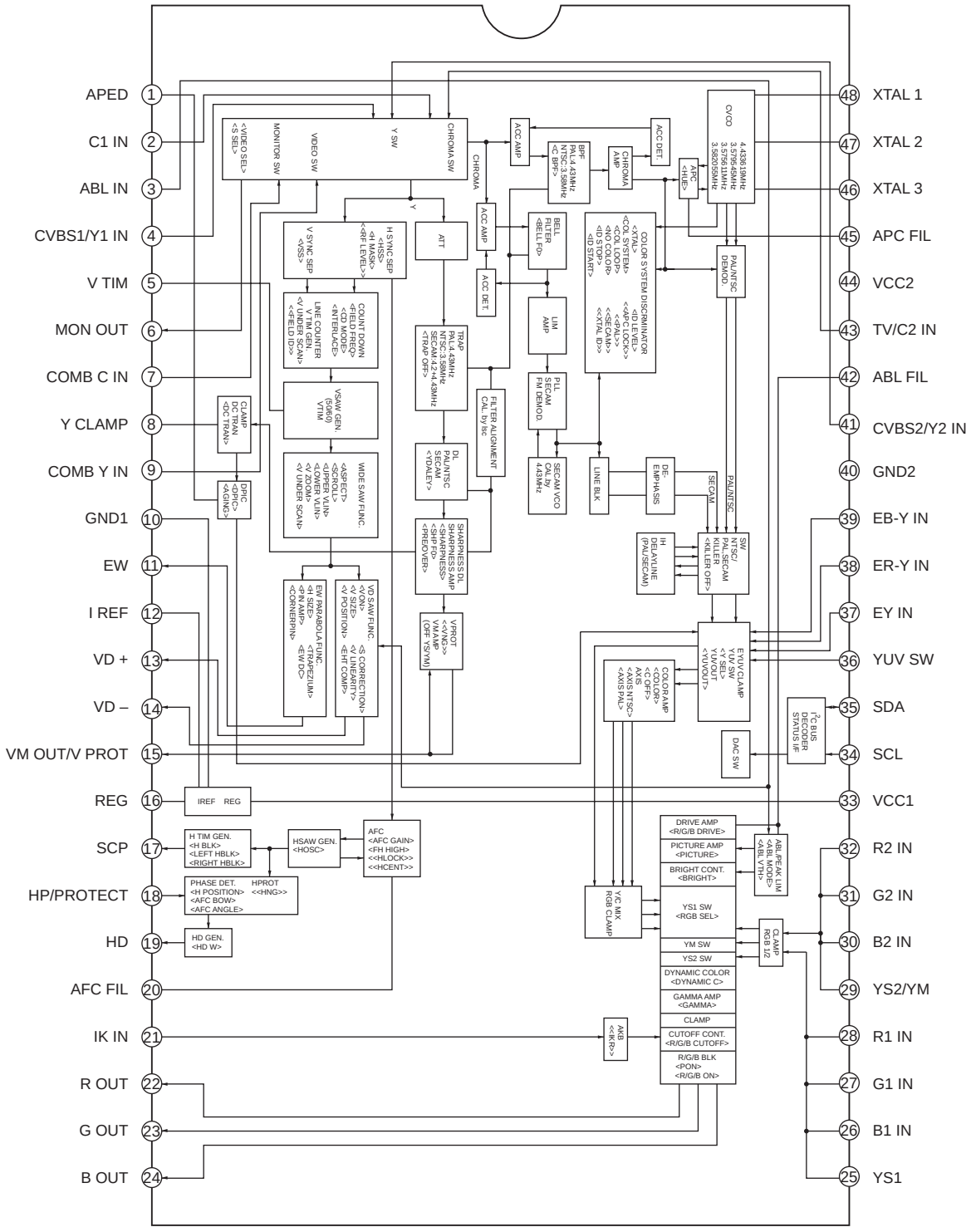
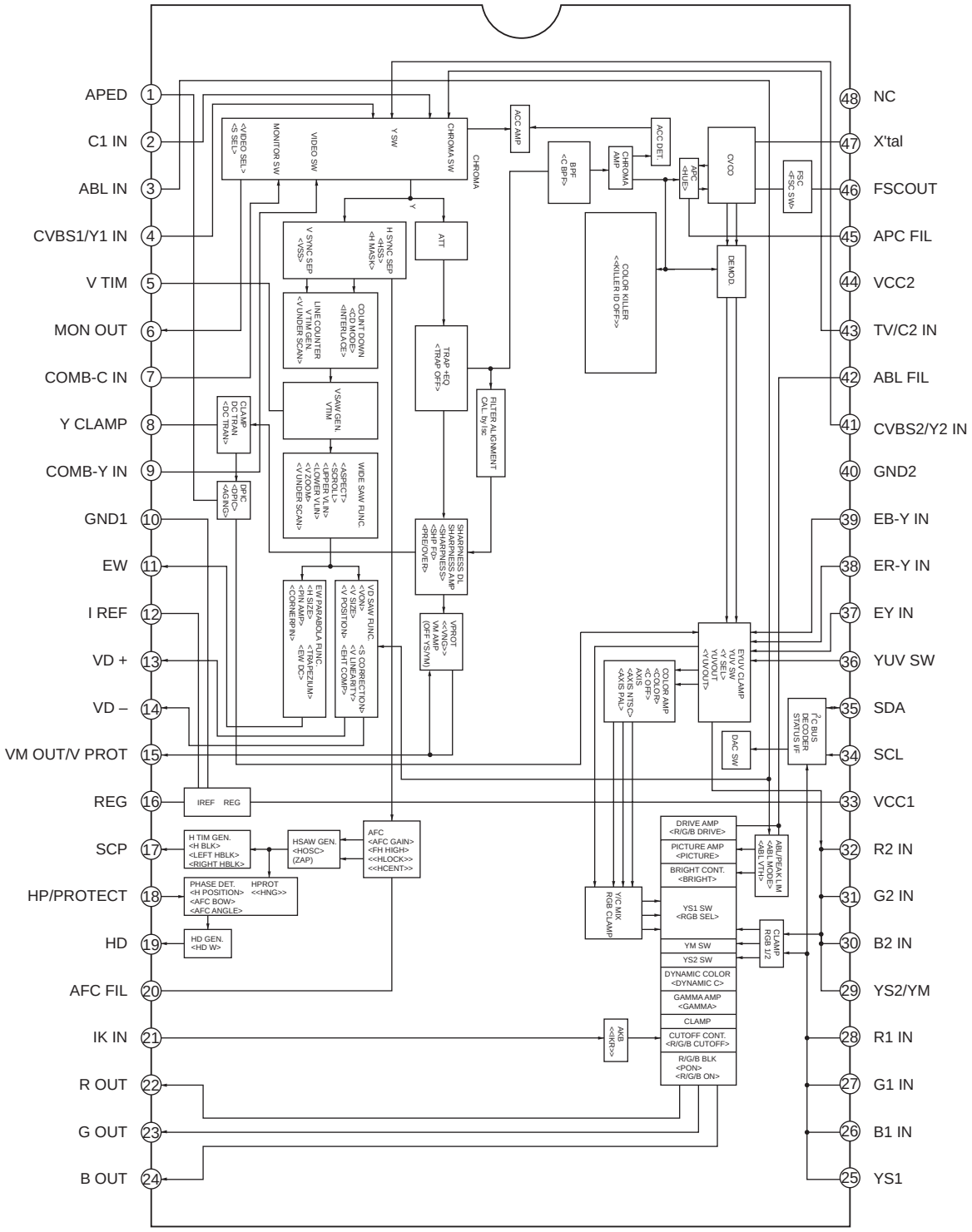


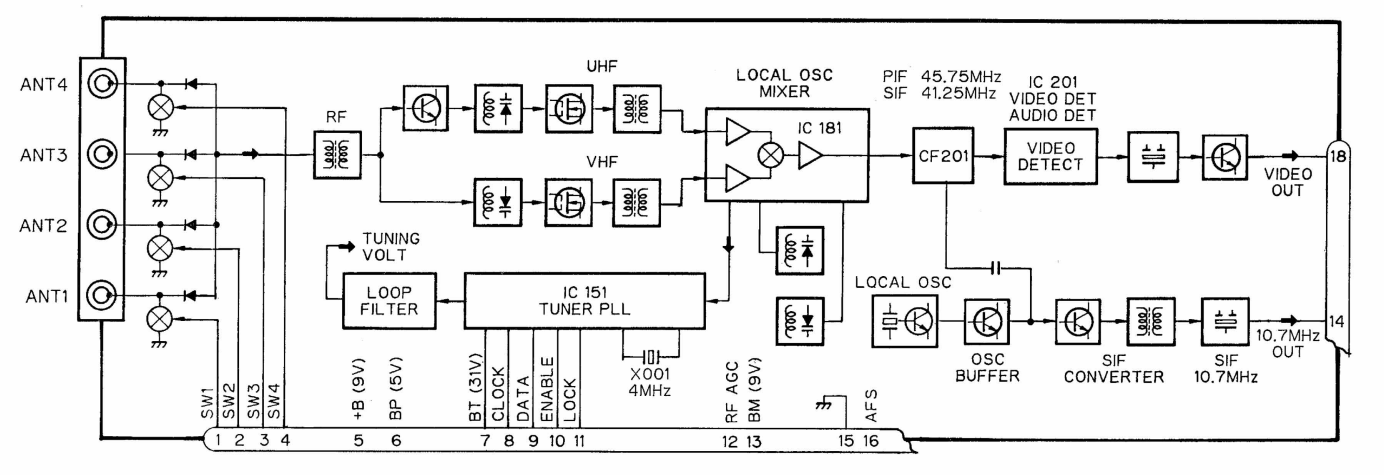
CXA2060BS


APED 1
C1 IN 2
ABL IN 3
CVBS1/Y1 IN 4
V TIM 5
MON OUT 6
COMB C IN 7
Y CLAMP 8
COMB Y IN 9
GND1 10
EW 11
I REF 12
VD + 13
VD – 14
VM OUT/V PROT 15
REG 16
SCP 17
HP/PROTECT 18
HD 19
AFC FIL 20
IK IN 21
R OUT 22
G OUT 23
B OUT 24
48 XTAL 1
47 XTAL 2
46 XTAL 3
45 APC FIL
44 VCC2
43 TV/C2 IN
42 ABL FIL
41 CVBS2/Y2 IN
40 GND2
39 EB-Y IN
38 ER-Y IN
37 EY IN
36 YUV SW
35 SDA
34 SCL
33 VCC1
32 R2 IN
31 G2 IN
30 B2 IN
29 YS2/YM
28 R1 IN
27 G1 IN
26 B1 IN
25 YS1
CHROMA SW
Y SW
VIDEO SW
MONITOR SW
ACC AMP
BPF PAL:4.43MHz NTSC:3.58MHz
CHROMA AMP
ACC DET.
ACC <HUE>
CVCO 4.433619MHz 3.579545MHz 3.575611MHz 3.582056MHz
PAL/NTSC DEMOD.
COLOR SYSTEM DISCRIMINATOR
BELL FILTER
LIM AMP
PLL SECAM FM DEMOD.
SECAM VCO CAL by 4.43MHz
LINE BLK
DE-EMPHASIS
SECAM
PAL/NTSC
SW NTSC/ PAL-SECAM KILLER
1H DELAY LINE (PAL/SECAM)
EY/YUV CLAMP
COLOR AMP
YC MIX RGB CLAMP
DRIVE AMP
PICTURE AMP
BRIGHT CONT.
YS1 SW
YM SW
YS2 SW
DYNAMIC COLOR
GAMMA AMP
CLAMP
CUTOFF CONT.
R/G/B BLK
ABL/PEAK LIM
CLAMP RGB 1/2
I²C BUS DECODER STATUS I/F
DAC SW
AKB
IREF REG
H TIM GEN.
HSAW GEN.
AFC
PHASE DET.
HD GEN.
TRAP PAL:4.43MHz NTSC:3.58MHz SECAM:4.2+4.43MHz
DL PAL/NTSC SECAM
FILTER ALIGNMENT
ATT
H SYNC SEP
V SYNC SEP
COUNT DOWN
LINE COUNTER
VSAW GEN. (50/60) VTIM
WIDE SAW FUNC.
CLAMP DC TRAN
DPIC
SHARPNESS DL SHARPNESS AMP
VPROT VM AMP
EW PARABOLA FUNC.
VD SAW FUNC.

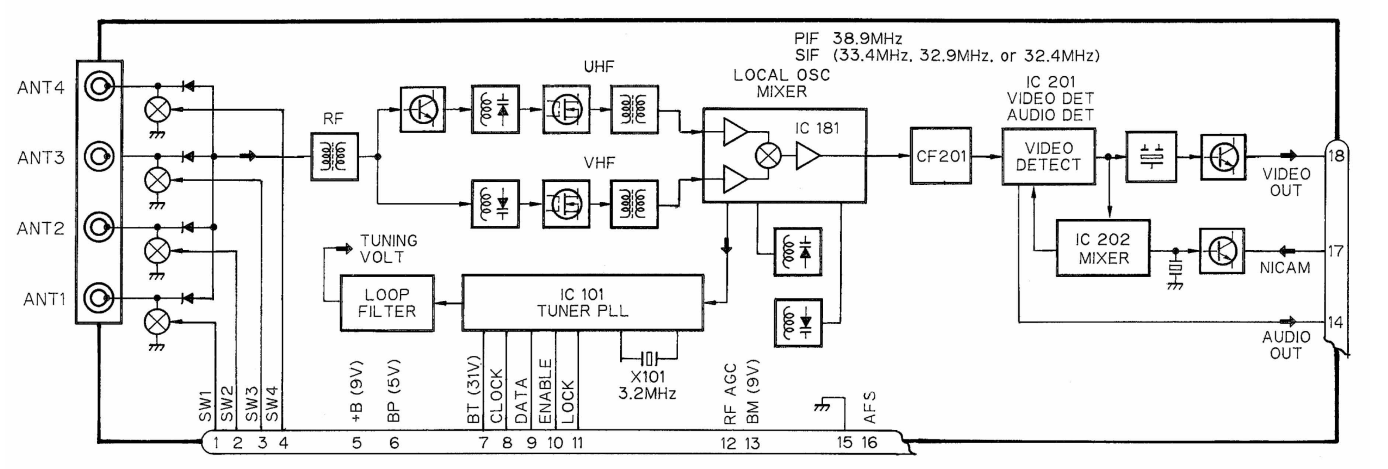
CXA2061S


APED 1
C1 IN 2
ABL IN 3
CVBS1/Y1 IN 4
V TIM 5
MON OUT 6
COMB-C IN 7
Y CLAMP 8
COMB-Y IN 9
GND1 10
EW 11
I REF 12
VD + 13
VD – 14
VM OUT/V PROT 15
REG 16
SCP 17
HP/PROTECT 18
HD 19
AFC FIL 20
IK IN 21
R OUT 22
G OUT 23
B OUT 24
48 NC
47 X'tal
46 FSCOUT
45 APC FIL
44 VCC2
43 TV/C2 IN
42 ABL FIL
41 CVBS2/Y2 IN
40 GND2
39 EB-Y IN
38 ER-Y IN
37 EY IN
36 YUV SW
35 SDA
34 SCL
33 VCC1
32 R2 IN
31 G2 IN
30 B2 IN
29 YS2/YM
28 R1 IN
27 G1 IN
26 B1 IN
25 YS1
CHROMA
Y SW
CHROMA SW
VIDEO SW
MONITOR SW
<VIDEO SEL>
<S SEL>
ACC AMP
ACC DET.
BPF
<C BPF>
CHROMA AMP
APC
<HUE>
CVCO
FSC
<FSC SW>
Y
H SYNC SEP
<HSS>
<H MASK>
V SYNC SEP
<VSS>
ATT
COLOR KILLER
<<KILLER ID OFF>>
DEMOD.
LINE COUNTER
V TIM GEN.
<V UNDER SCAN>
COUNT DOWN
<<INTERLACE>>
TRAP +EQ
<TRAP OFF>
FILTER ALIGNMENT
CAL by I²c
CLAMP
DC TRAN
<DC TRAN>
VSAW GEN.
VTIM
DPIC
<DPIC>
<HGNG>
WIDE SAW FUNC.
<ASPECT>
<SCROLL>
<UPPER VLIN>
<V ZOOM>
<V LOWER VLIN>
<V UNDER SCAN>
SHARPNESS DL
SHARPNESS AMP
<SHARPNESS>
<PRE/OVER>
EW PARABOLA FUNC.
<H SIZE>
<PIN AMP>
<CORNER/PIN>
<TRAPEZUM>
<EW DC>
VD SAW FUNC.
<VGN>
<V SIZE>
<V POSITION>
<S CORRECTION>
<V LINEARITY>
<EHT COMP>
VPROT
<VGNG>
<VM MUTE>
(OFF-YS/YM)
EYUV CLAMP
YUV SW
<Y SEL>
<YUVOUT>
COLOR AMP
<COLOR>
<C OFF>
<COLOR KILL>
AXIS
<AXIS NTSC>
<AXIS PAL>
DAC SW
I²C BUS
DECODER
STATUS I/F
IREF REG
H TIM GEN.
<H BLK>
<LEFT HBLK>
<RIGHT HBLK>
HSAW GEN.
<HOSC>
(ZAP)
AFC
<AFC GAIN>
<FH HIGH>
<<HLOCK>>
<<HCENT>>
PHASE DET.
<H POSITION>
<AFC BOW>
<AFC ANGLE>
HPROT
<<HNG>>
HD GEN.
<HD W>
DRIVE AMP
<R/G/B DRIVE>
PICTURE AMP
<PICTURE>
BRIGHT CONT.
<BRIGHT>
YS1 SW
<RGB SEL>
YM SW
YS2 SW
DYNAMIC COLOR
<DYNAMIC C>
GAMMA AMP
<GAMMA>
CLAMP
CUTOFF CONT.
<R/G/B CUTOFF>
R/G/B BLK
<PON>
<R/G/B ON>
Y/C MIX
RGB CLAMP
AKB
<<IKR>>
ABL/PEAK LIM
<ABL MODE>
<ABL VTH>
CLAMP
RGB 1/2

● TV Front End (FE1001:CWB1085)



● TV Front End (FE1001:CWB1086)



7.2 CIRCUIT DESCRIPTION

● Multi-SIF

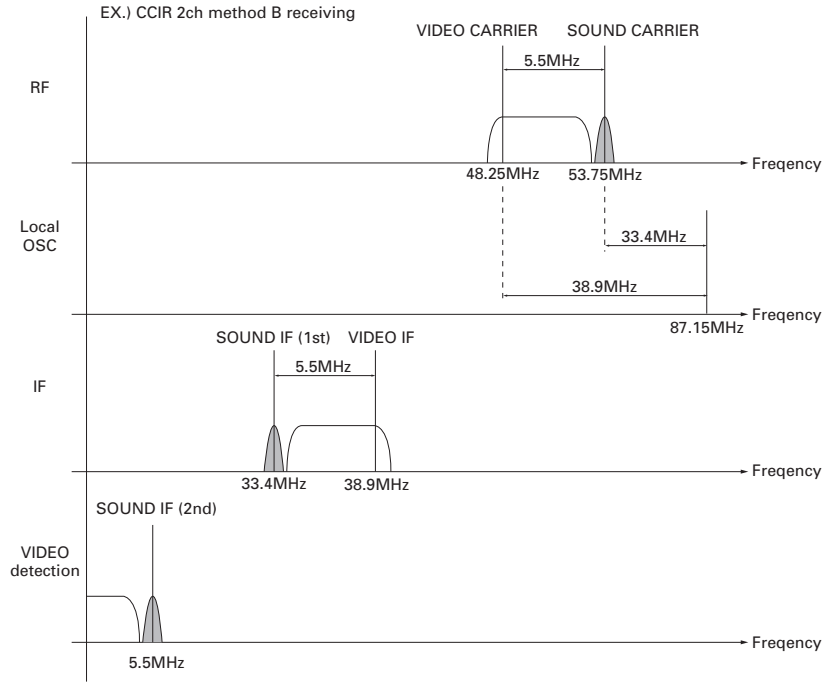
GEX-P7000TVP/EW and /ES adopt the multi-Sound IF method in order to support overseas TV broadcasting methods. /EW and /ES are compatible with broadcasting methods B, G, H, D, K and I.
The frequency difference between the video and sound carriers is 5.5 MHz for broadcasting methods B, G and H,
6 MHz for I or
6.5 MHz for D and K.

In order to simplify the receiver configuration, the circuit is configured to control the local oscillator so that the video IF turns 38.9 MHz.
When the video IF is 38.9 MHz, the sound IF turns 33.4 MHz for methods B, G and H,
32.9 MHz for I or
32.4 MHz for D and K.

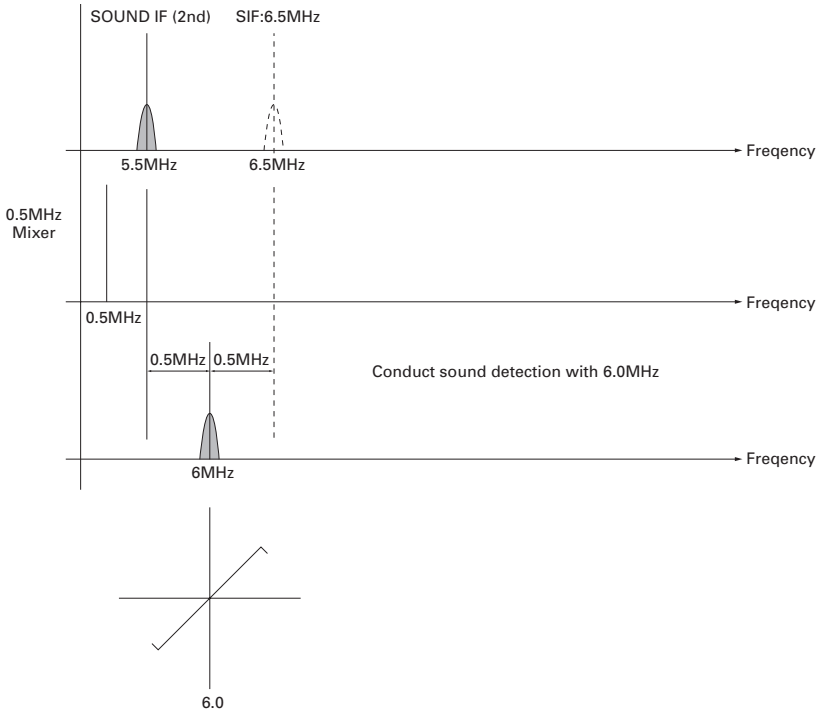
Although video demodulation is now possible with a fixed frequency of 38.9 MHz, detection with the above settings is uneconomical since the frequencies of the sound IF differ between each method as shown above.
By square-law-detecting the video IF of 38.9 MHz, the video signal returns to the base band signal and the sound IF turns as follows:

B, G and H: 33.4 MHz → 5.5 MHz
I: 32.9 MHz → 6 MHz
D and K: 32.4 MHz → 6.5 MHz

As shown above, the sound IF is converted into 5.5 MHz, 6 MHz or 6.5 MHz.



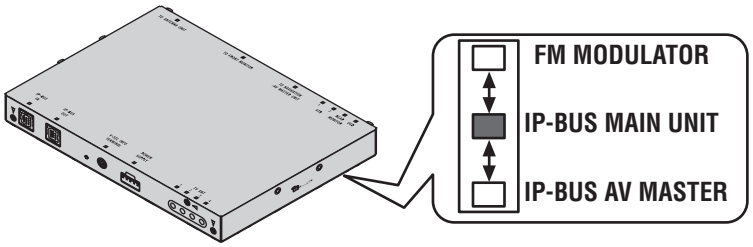
Since detection circuits cannot be unified into one even with the above conversion, turn the IF to 6.0 MHz for all methods by utilizing a frequency difference of 0.5 MHz between each IF.
When IF = 5.5 or 6.5 MHz: Mix an oscillator of 0.5 MHz to turn it to 6.0 MHz.
6.0 MHz: Nothing is to be mixed.
In other words, by turning a mixer of 0.5 MHz on for methods B, G, H, D and K or off for I, sound detection is enabled with only one detection circuit of 6.0 MHz.
The multi-SIF refers to such a method as explained above which enables SIFs of each method (B, G, H, D, K and I) to be detected.



8. OPERATIONS AND SPECIFICATIONS

8.1 OPERATIONS

MODE Switch Setting



Set the MODE switch on the bottom of this product to the appropriate position with a pen tip or other pointed instrument, for the component you are combining it with. Operations may differ slightly in each MODE.

(1) AV MASTER MODE (IP-BUS AV MASTER)

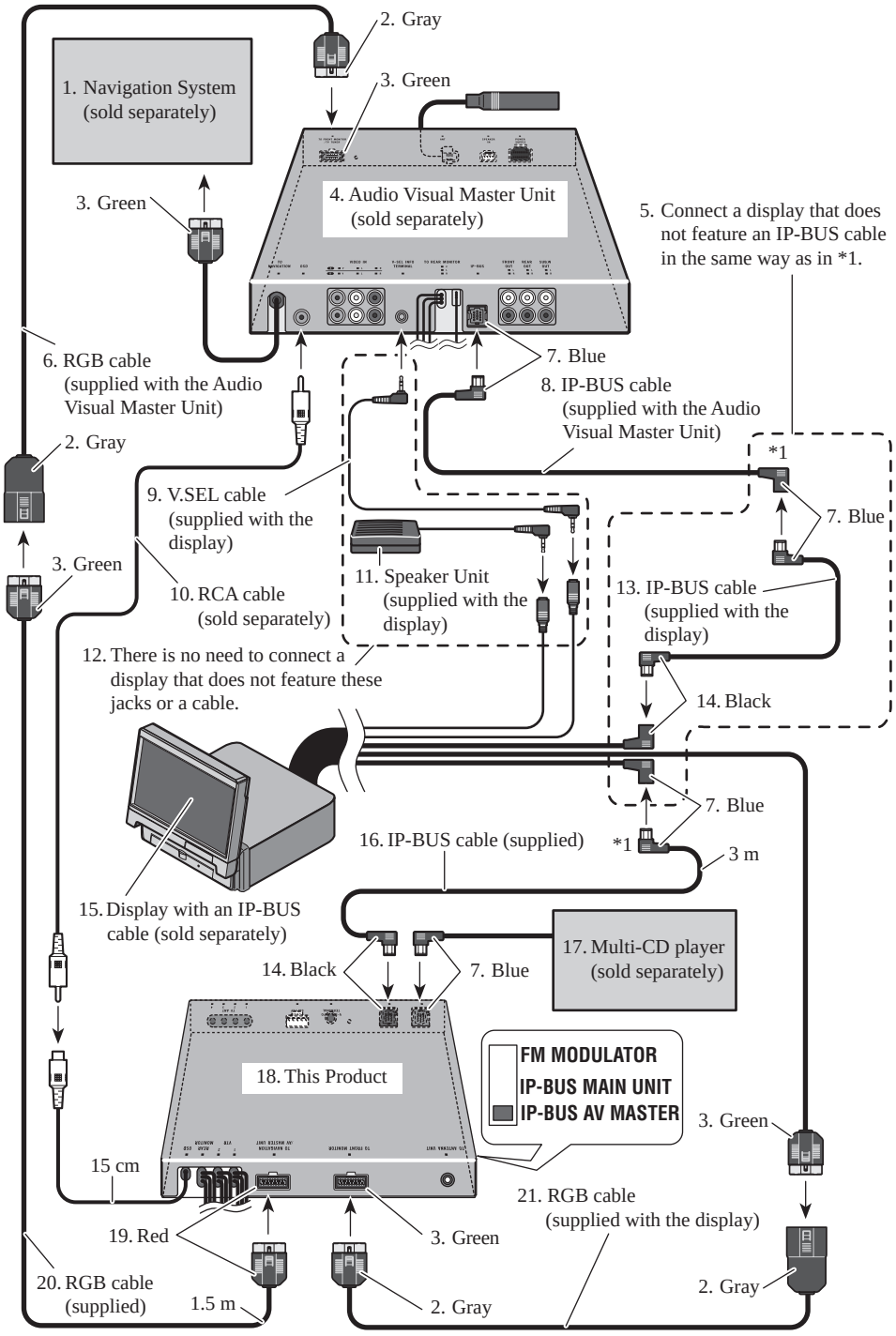
When combining with a PIONEER Audio Visual Master Unit (e.g. AVM-P7000R):
- Audio is output from the Audio Visual Master Unit's TV source.
- Perform operations with this product and the Audio Visual Master Unit.

(2) IP-BUS MODE (IP-BUS MAIN UNIT)

When combining with a PIONEER Head Unit featuring an IP-BUS input:
- Audio is output from the Head Unit's TV source.
- Perform operations with this product and the Head Unit.

(3) ADD-ON MODE (FM MODULATOR)

When combining with a car stereo with FM reception capability and using an FM MODULATOR (supplied):
- Audio is output from the car stereo's FM source.
- Perform all operations with this product.


1. Navigation System (sold separately)
2. Gray
3. Green
4. Audio Visual Master Unit (sold separately)
5. Connect a display that does not feature an IP-BUS cable in the same way as in *1.
6. RGB cable (supplied with the Audio Visual Master Unit)
7. Blue
8. IP-BUS cable (supplied with the Audio Visual Master Unit)
9. V.SEL cable (supplied with the display)
10. RCA cable (sold separately)
11. Speaker Unit (supplied with the display)
12. There is no need to connect a display that does not feature these jacks or a cable.
13. IP-BUS cable (supplied with the display)
14. Black
15. Display with an IP-BUS cable (sold separately)
16. IP-BUS cable (supplied)
17. Multi-CD player (sold separately)
18. This Product
FM MODULATOR
IP-BUS MAIN UNIT
IP-BUS AV MASTER
19. Red
20. RGB cable (supplied)
21. RGB cable (supplied with the display)
*1
3 m
15 cm
1.5 m

8.2 SPECIFICATIONS

● GEX-P7000TVP/EW

General

Power source ..... 14.4 V DC (10.8 — 15.1 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 2 A
Dimensions ..... 237 (W) × 28 (H) × 171 (D) mm
Weight ..... 1.1 kg

TV tuner

Reception channel/TV system ..... COUNTRY 1: (CCIR/B, G, H, K) : VHF 2 — 12 ch, UHF 21 — 69 ch
COUNTRY 2: (ITALY/B, G, H, K) : VHF A — H2 ch, UHF 21 — 69 ch
COUNTRY 3: (UK/I) : UHF 21 — 69 ch
COUNTRY 4: (OIRT/G, H, D, K) : VHF R1 — R12 ch, UHF 21 — 69 ch
Color system ..... PAL/SECAM compatible
Usable sensitivity ..... 26 dBμ
Video S/N ..... Over 35 dB (59 dBμ RF input, White Peak 100 %)
Video S/N 30 dB usable sensitivity ..... 50 dBμ
Video input level ..... Sound: 1 Vrms/5 kΩ
Video: 1 Vp-p/75 Ω
Video output impedance ..... 1 Vp-p/75 Ω unbalanced, synchronized negative
FM modulator ..... Frequency: 87.9 — 90.1 MHz (200 kHz, 12 steps)
Level: ±3 (7 steps)
Antenna input ..... 4 ch Diversity (ϕ 3.5 mm Mini plug type)

Rear display output

Video ..... 1 Vp-p/75 Ω (TV: White 100 % Modulated)
Sound ..... 500 Vrms/Less than 1 kΩ (TV: 100 % Modulated)
PAL/SECAM/NTSC compatible through outputs from TV/VTR 1/VTR 2

Note:
- Specifications and the design are subject to possible modification without notice due to improvements.